Padasalai.Net - 11th Study Material

XI- BIO ZOOLOGY ONE MARK STUDY MATERIAL

1.	_omnivores, nocturnal, living in damp.
	a) Fishing b) Cockroach c) Cursorial d) Vectors
2.	Nephridia of Earthworms are performing the same functions as
	a) Gills of prawn b) Flame cells of Planaria
	a) Gills of prawn b) Flame cells of Planaria c) Trachea of insects d) Nematoblasts of Hydra
3.	_are not present in Lampito mauritii (earthworms.)
	a) Intestinal caecae b) Vermicasts c) Respiratory organs d) Oxygen
4.	Column I represents diseases and column II represents their symptoms. Choose the
	correctly paired option
	Column I Column II
	(P) Asthma (i) Recurring of bronchitis
	(Q) Emphysema (ii) Accumulation of W.B.CS in alveolus
	(R) Pneumonia (iii) Allergy
5.	Which type of movement occurs in the respiratory passages and genital tracts?
	A) Macrophages b) Ciliary movement
	c) Flagellar movement d) Muscular movement
6.	It is a character of organ level oforganization.
	a) There is division of labour among the cells and different types of cells are functionally isolated
	b) The cells of a tissue integrate in a highly coordinated fashion to perform a common
	function, due to the presence of nerve cells and sensory cells
	c) Highly specialized nerve and sensory cells coordinate and integrate the functions
	d) All of the above
7.	Theincludes pre-oral cavity, mouth, pharynx and oesophagus.
	a) Gynovalvular plates b) Foregut c) Crop d) Proventriculus
8.	Each skeletal muscle is covered by
	a. epimysium b. perimysium c. endomysium d. hypomysium
9.	Toxic urea can be removed from the blood by a process
	a) Haemodialysis b) Kidney transplantation
	c) Joseph E d) Atrial natriuretic peptide
10.	How is circulatory system seen in arthropods, molluscs, echinoderms, and urochordates?
	a) The blood remains filled in tissue spaces due to the absence of blood capillaries
	b) The blood is circulated through blood vessels of varying diameters
	c) Both of these
	d) None of these
	11. Which are thin walled and consist of single layer of squamous epithelium?a) Capillaries b) Veins c) Coronary artery d) Open circulatory system
12	Which regulates sleep and wake cycle?
12.	· · · · · · · · · · · · · · · · · · ·
u) Epi 13.	thalamus b) Choroid plexus c) Pineal body d) Melatoninof marine fishes produce little urine.
13.	a) Crustaceans b) Nephron c) Aglomerular kidneys d) 120-170 grams
14.	If Henles loop were absent from mammalian nephron, which one of thefollowing is to be
14.	expected?
	a. There will be no urine formation
	b. There will be hardly any change in the quality and quantity of urine formed
	c. The urine will be more concentrated
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15	d. The urine will be more dilute Which is thewall of the small intestine bears crypts between the base of villi?
15.	a) Peyers patches b) Crypts of Leiberkuhn
	c) Vermiform appendix d) Haustra
	cy vermijorii appenaix ay naastra
16.	The nymph grows byor ecdysis about 13 times to reach the adult form.
47	a) Moulting b) Allergen c) Diploptera punctata d) Super food The impure cells attack and inflame the membranes ground the joints
17.	The immune cells attack and inflame the membranes around the joints
	a) Stickler syndrome b) Rhabdomyosarcoma c) Rheumatoid arthritis d) Sjogrens syndrome
18.	Which does become fatal to the foetus because the child suffers from anaemia and
	jaundice?
	a) Rh1 b) Rh2 c) Erythroblastosisfoetalis d) Prothrombin
19.	, <u> </u>
a) Spir	nal cord b) Caudaequina
	c) Cervical enlargement d) Lumbar enlargement
20.	Inner to the axolemma, the cytoplasm con-tains the
и) ыр	olar neurons b) Unipolar neurons c)Intracellular fluid d) Resting membrane Potential
21.	
	a) Taxonomy b) Classification c) Nomenclature d) Identification
22.	The endothelium of glomerulus has many pores
	a) Fenestrae b) Simple squamous epithelium
	c) Podocytes d) Filtration slits
23.	What does HClproduce?
	a) Acidic medium b) Alkaline medium c) Both of these d) None of the above
24.	Based on the behaviour of the organisms it can be classified.
	a) Neo taxonomical tool b) Ethology of taxonomical tool
	c) e - taxonomic resource d) All of the above
25.	Which does maintain the internal osmotic concentration?
	a) Osmotic homeostasis b) Osmoregulators c) Stenohaline d) Euryhaline
26.	In which, the oxygenated blood entering the aorta from the left ventricle is carried by a
	network of arteries, arterioles and capillaries to the tissues? a) Systemic circulation b) Pulmonary circulation
	c) Vagus nerve d) Hypertension
27.	Located in the midline of the brain, be-tween the two cerebral hemispheres .
	a) Ampulla b) Depolarization c) Properioception d) Septum pellucidum
28.	Which character is not included in Sponges?
	a) Aquatic, sessile or free swimming, solitary or colonial forms with radial symmetry
	b) These pore bearing animals
	c) They are aquatic, mostly marine, asymmetrical d) a few species live in freshwaters
29.	The region where the diaphysis and epiph-yses meet is called the
	taphysis b) Periosteum c) Osteoblasts d) Endosteum
30.	help to prevent falls which is a common problem in older adults.
a) Myd	asthenia gravis b) Balance exercises
	c) Metaphysis d) Muscle pull
31.	Which character is not included in Annelida?
	a) Has jointed appendages
	b) The coelom with coelomic fluid creates a hydrostatic skeleton
	c) Their elongated body is metamerically segmented
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	d) laterally the comparts are divided from one enother materials
32.	 d) Internally the segments are divided from one another, metamerism While fasting,maintains life by producing and supplying energy as fuel.
32.	a) Adipocytes b) Adipose tissue c) Brown fat d) White fat
33.	Which is one of the parameter used to identify the efficiency of the kidney?
33.	a) 120-125mL/min b) Renal clearance
	c) Tubular reabsorption d) 170-180 L perday
34.	
34.	a) Autonomic Nervous System b) Brain c) Prosencephalon d) Telencephalon
	a) Autonomic Nervous system b) Brain c) Prosencephaton a) retencephaton
35.	An earthworm is divided 14th - 17th segments region.
	a) Setigerous sac b) Pre clitellar c) Clitellar d) Post - clitellar
36.	
	a) Gizzard b) Enteric caecae c) Malphigian tubules d) Hindgut
37.	
	prevents backflow of blood?
	a) Capillaries b) Veins c) Coronary artery d) Open circulatory system
38.	Which is the mucus along with the bicarbonate ions from the pancreas provide?
	a) Acidic medium b) Alkaline medium
	c) Both of these d) None of the above
39.	What is a structural abnormalityin which superior part of the stomach?
	a) Peptic ulcer b) Appendicitis c) Hiatus hernia d) Diarrhoea
40.	Highly specialized nerve and sensory cells coordinate and integrate the functions of the
	organ systems, which can be verydepending on the individual animal.
	a) primitive b) simple c) complex d) all of the above
41.	Which ismaintained the osmotic pressure of the blood?
40	a) Albumin b) Globulin c) Prothrombinand Fibrinogen d) All of the above
42.	
43.	 a) Lymphocytes b) Tunica intima c) Elastin d) Tunica externa is situated at the upper end of the ulna which forms the pointed portion of the
43.	elbow.
a) Hu	merus b) Glenoid cavity c) Olecranon process d) Pelvic girdle
,	Frog is an .
	a) Rana hexadactyla b) Amphibian c) Anura d) Poikilothermic
4 5.	store the sperms in the form of bundles called spermatophores.
	a) Malpighian tubules b) Mushroom shaped gland
	c) Seminal vesicles d) Gonapophyses
46.	Assertion: The imbalance in concentration of Na+, K+ and proteins generates action
	potential. Reason: To maintain the unequal distribution of Na+ and K+, the
	neurons use electrical energy.
	a. Both Assertion and Reason are true and Reason is the correct explanation of the
	Assertion.
	b. Both Assertion and Reason are true but the Rea-son is not the correct
	explanations of Assertion.
	c. Assertion is true, but Reason is false.
	d. Both Assertion and Reason are false
47.	involves transfer of healthy kidney from one person (donor) to another person with kidney
	failure.
	a) Haemodialysis b) Kidney transplantation
	c) Joseph E d) Atrial natriuretic peptide
48.	The conditioned reflex was first demon-strated by
a) Un	conditional reflex b) Conditioned reflex
40	c) Pavlov d) Cerebral cortex
49.	Theis located between the dienceph-alon and the pons.
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a) Theophrastus b) John Ray c) Carolus Linnaeus d) Ernst Haeckal 51 is a liquid manure or plant tonic obtained from earthworm. a) Vermitech b) Vermiculture c) Vermicomposting d) Vermiwash 22. Where does trached divide into right and left primary bronchi, one bronchus to each lung? a) 4th thoracic vertebra b) 5th thoracic vertebra c) Mediastinum d) All of theabove 32. Which is transported in a dissolved form in the plasma? a) Dissolved in plasma b) Bound to haemoglobin c) Both of these d) None of the above 34. Which is duct of sub-maxillary! sub-mandibular gland? a) Taeniae coli b) Valves of kerkring c) Whartons duct d) Succusnetricus 35. How does we getenergy? a) Sos energy from carbohydrates b) 35% from fats c) 15% from proteins d) All of theabove 36. Who was defined the term bio-diversity? a) A.G. Tansley b) Watter Rosen c) E.D. Wilson d) Aristotle 37 have high myosin ATPase activity and can make large amounts of ATP. 38 Sow -oxidative fibres b) Fast - oxidative fibres c) Fast - glycolytic fibres d) Hydrostatic skeleton 38. Earth has habitats with a wide range of living organisms inhabiting them. a) few b) numerous c) all d) none of these solution and the tiving organism hence it becomes necessary to device somemeans and methods to make this possible and this process is called d) Identification d) A body cavitycalled the is seen between the alimentary canal and the body wall. d) Microchaetus rappi b) Drawida nilamburansis c) Coelom d) Coelomocytes 61 have a single short process and one axon. d) Bipolar neurons b) Unipolar neurons c) Intracellular fluid d) Resting membrane Potential 62. The limbless amphibian is d) Activophis b) Hyla c) Rana d) Selemantophispian is e) Coelomocytes f) have a single short process and one axon. d) Bipolar neurons b) Unipolar neurons c) Uniracellular fluid d) Resting membrane Potential 63. Vascular layer of eye is d) Aqueous humor b) Crystallline c) Sclera d) Coelomocytes f) Hyla c) Rana d) Selemantophores b) Crystalline c) Sclera d) Coelomocyt		50.	a) Emotional brain b) Brain stem c) Mid brain d) Corpora quadrigeminaintroduced the method of representing evolutionary relationships with the help of a tree diagram known as cladogram.
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MR. AYYANAR., M.SC., B.ED., (LECTURER IN 7001 OGY), PRESIDENCY HR. SEC. SCHOOL			of organisation
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40	Name the small between the base of SIII in the well of the small intention?
69.	Name the crypts between the base of villi in the wall of the small intestine?
	a) Ampulla of vater b) Bartholins duct c) Crypts of leiberkuhn d) Falciform ligament
<i>7</i> 0.	The hemispheres are connected by a tract of nerve fibres called
	ebrum b) Cerebral cortex
u) cci	c) Corpus callosum d) Association areas
71.	
	a) Lymph vessels within villi b) Walls of stomach
	c) Colon d) Capillaries withinvilli
72 .	Rana hexadactyla is placed in the order .
	a) Rana hexadactyla b) Amphibian c) Anura d) Poikilothermic
73 .	Which character is not included in Arthropoda?
	a) Some are monoecious (earthworms) while some are dioecious
	b) The body consists of a head, thorax, and abdomen withhaemocoel
	a) Pagniyatany ayagna aya gilla baak gilla baak kunga ay tyaabaa
	c) Respiratory organs are gills, book gills, book lungs or trachea d) Circulatory system is of open type
74.	Trinomen means,
74.	a) Generic name b) Species name
	c) Sub-species name d) All of theabove
<i>7</i> 5.	The glomerular filtration which is a
	a) Passive process b) 180l c) Glomerular pressure d) Ultrafiltration
76 .	is used for storingfood.
	a) Gynovalvular plates b) Foregut c) Crop d) Proventriculus
77.	An accessoryat the base of each antenna which also pumps blood.
	a) Haemocytes b) 13 chambers c) Alary muscles d) Pulsatilevesicle
<i>7</i> 8.	It appears for the first time in the Phylum Platyhelminthes and seen in other higher phyla.
	a) Acellularlevel of Organisation b) Cellular level of Organisation c) Tissue level of Organisation d) Organ level of Organisation
<i>7</i> 9.	Theis more significant in the molecular taxonomical tools.
,,,	a) Accuracy and b) Authenticity
	c) Both of these d) None of the above
80.	The respiratory centre is present in the
	a. Medulla oblongata b. Hypothalamus c. Cerebellum d. Thalamus
81.	The loss of electric potential difference between the inside and outside
	a) Ampulla b) Depolarization c) Properioceptiond) Septum pellucidum
82.	lies infront of the cerebellum between the midbrain and the medulla
	oblongata.
a) Rho	ombencephalon b) Cerebellum
	c) Pons varoli d) Medulla oblongata
83.	have many processes with one axon and two or more dendrites.
a) My	elin sheath b) Synaptic knob c) Neuro-muscular junction d) Multipolar neurons
84.	To sustain themselves, earthworms must guide their way through the soil using their powerful
04.	muscles. They gather nutrients by ingesting organic matter and soil, absorbing what they need
	into their bodies. True or False: The two ends of the earthworm can equally ingest soil.
	a. True b. False
85.	The sclerites on the ventral side are called
	a) Sclerites b) Tergites c) Sternites d) Pleurites
86.	The worlds first successful human kidney transplantation was performed from one twins to
	another by
	a) Haemodialysis b) Kidney transplantation
	c) Joseph E d) Atrial natriuretic peptide
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<i>87</i> .	The sperm cells show
	crophages b) Ciliary movement
u) ma	c) Flagellar movement d) Muscular movement
88.	contains high proportion of elastic fibres.
55 .	a) Elastic connective tissue b) Specialised connective tissues
	c) Cartilages d) Bones
89.	The axon transmits nerve impulses away from the cell body to
	elin sheath b) Synaptic knob
u) my	c) Neuro-muscular junction d) Multipolar neurons
90.	Which does include chlorides, carbonates and phosphates of potassium, sodium, calcium
70.	and magnesium?
	a) Organic constituents b) Inorganic constituents
	c) Both of these d) None of the above
91.	Between the hind limbs is the .
71.	a) Nictitating membrane b) Tympanic membranes
	c) Cloacal aperture d) Fore limbs
	c) cloucul aperture a) Fore limbs
92.	have bundles of fibres and fibroblasts which are arranged irregularly.
	a) Reticular connective tissue
	b) Dense connective tissues
	c) Dense regular connective tissues
0.3	d) Dense irregular connective tissues
93.	His most important contribution was the establishment of species as the ultimate
	unit of taxonomy.
0.4	a) Theophrastus b) John Ray c) Carolus Linnaeus d) Ernst Haeckal
94.	Which one of the following plasma proteins is involved in the coagulation of blood? a) Globulin b) Fibrinogen c) Albumin d) Serum amylase
95.	a) Globulin b) Fibrinogen c) Albumin d) Serum amylase Whichis the pressure in the arteries when the heart chambers relax?
93.	a) Ventricular diastole b) Cardiac output
	c) Systolic pressure d) Diastolic pressure
96.	Collaterial glands present behind the ovaries forms a hard egg case called .
70.	a) Ovarioles b) Vagina c) Ootheca d) Paurometabolus
97.	Choose the wrong statement among the following:
77.	a) In earthworm, a single male genital pore is present.
	b) Setae help in locomotion of earthworms.
	c) Muscular layer in the body wall of earthworm is made up of only circular muscles.
	d) Typhlosole is part of the intestine of earthworm.
98.	Which is unabsorbed substances in the ileum enter into the large intestine?
	a) Roughage b) Defaecation c) Both of these d) None of the above
99.	Which is the inspired air never reaches the gas exchange areas?
	a) Minute Respiratory Volume b) Inspiratory capacity
	c) Expiratory capacity d) Dead space
	100. Arteries do not always branch into arterioles, they can also form
	a) Arteries b) KiloPascal (KPa) c) Small sphincter d) Anastomoses
101.	
	_·
a) Rep	polarisation b) Hyperpolarization
	c) Lazy gates d) Nodes of Ranvier
102.	
	a) Intestine b) Microvilli c) Rectum d) Cloaca
103.	
	a) Simple epithelium b) Squamous epithelium
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c) Columnar epithelium
                                      d) Cuboidal epithelium
             is also called Brights disease and is characterized by inflammation of the
  104.
        glomeruli of both kidneys.
        a) Uremia
                                              b) Renal calculi
        c) Pyleothotomy or lithotripsy
                                            d) Glomerulonephritis
              may be different for the study of plants and animals.
  105.
        a) Tools
                                     b) Taxonomical aids
                                 d) None of the above
        c) Both of these
        What is the mechanism of small amounts of glucose, amino acids and electrolytes like chloride
        ions are generally absorbed?
        a) Diffusion b) Simple diffusion c) Facilitated transport d) Active transport
        Each ovary is formed of a group of eight ovarian tubules or
  107.
        a) Ovarioles
                          b) Vagina
                                           c) Ootheca
                                                             d) Paurometabolus
        Which are chords that extend from the edge of each flap?
  108.
                       b) Chordate tendineae
        a) Aorta
                                                    c) Lub sound
                                                                        d) Dub sound
  109.
        Acetabulum is located in
        a. collar bone
                             b. hip bone
                                                c. shoulder bone
                                                                         d. thigh bone
        Assertion: (A) Large intestine also shows the presence of villi like small intestine.
  110.
        Reason: (B) Absorption of water takesplace in large intestine.
        a. Both A and B are true and B is thecorrect explanation of A
        b. Both A and B are true but B is notthe correct explanation of A
        c. A is true but B is false
        d. A is false but B is true
       Which is the first step in urine formation is the filtration of blood that takes place in the
  111.
        glomerulus?
        a) Vasa recta
                                  b) Cortical nephrons
        c) Ornithine cycle d) Glomerular filtration
        Which character is not included in Arthropoda?
  112.
        a) This is the largest phylum of the KingdomAnimalia
        b) This is the second largest animal phylum
        c) Sensory organs like antennae, eyes, statocystsare present
        d) Excretion takes place through malpighian tubules, green glands, coxal glands
       Who was introduced the term bio - diversity?
  113.
        a) A.G.Tansley
                             b) Walter Rosen
                                                                        d) Aristotle
                                                    c) E.D. Wilson
       Pneumatic bones are seenin
  114.
        a) Mammalia
                            b) Aves
                                          c) Reptilia
                                                           d) Sponges
  115.
        Which is the character not included in class Reptilia?
        a) They are mostly terrestrial animals
        b) Their body is covered by dry, and cornified skin with epidermal scales or scutes
        c) Excretion by metanephric kidneys and are uricotelic
        d) Respiration is by gills, lungs and through the skin
        In sponges, the inner layer is formed of
  116.
                             b) Choanocytes c) Chaoanoflagellates d) All of the above
a) Pinacocytes
  117.
        Make the correct pairs.
        Column-I
                       Column-II
                       i. maximum volume of air breathe in after forced.
        (P) IC
                       ii. Volume of air present after expiration in lungs.
        (Q) EC
        (R) VC
                       iii. Volume of air inhaled after expiration.
                       iv. Volume of air exhaled after inspiration.
        (S) FRC
        (a) P-i, Q-ii, R-iii, S-iv (b) P-ii, Q-iii, R-iv, S-i
        (c) P - ii, Q - iii, R - i, S - iv (d) P - iii, Q - iv, R - i, S - ii
        The external surface of the entire bone ex-cept the joint surface is covered by a dou-
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bla layarad mambrana callad tha	
ble-layered membrane called the a) Metaphysis b) Periosteum c) Osteoblasts d) Endosteum	
119. Which is mucus secreting glands?	
a) Gastric rugae b) Glissons capsule c) Goblet cell d) Haustra	
120. Warm blooded and maintain a constant body temperature	
a) Articular membrane b) Clitellum c) Cochlea d) Homeothermic	
121. Mesencephalon includes two large, ovaloptic lobes and has cavities	
a) Olfactoryventricle b) Optic ventricles c) Rhombencephalon d) Cerebellum	
122. Sliding filament theory in 1954, proposed the sliding-filament theory to explain muscle	
contraction.	
a) F-actin	
b) Andrew F. Huxley and Rolf Niedergerke	
c) Contraction	
d) Acetylecholine	
123. Plasma mainly consists of water	
a) 72-80% b) 80- 92% c) 70-80% d) 80-90%	
124. The testes give rise to the germ cells or	
a) Spermatogonia b) Ciliary rosettes c) Vasa deferentia d) Prostate gland	
125. Find odd one out -Biradial symmetry.	
a) Symmetry found in cnidarians such as sea anemone and corals	
b) Animals which possess two pairs of symmetrical sides	
c) It is a combination of radial and bilateral symmetry	
d) There are only two planes of symmetry, one through the longitudinal and sagittal axis and	
the other through the latitudinal and transverse axis.	
126are photosynthetic blue green algae which produce oxygen.	
a) Probiotic b) Pathogenic c) Cyanobacteria d) All of the above	
127. Which is a sensory structure that responds to a specific stimulus?	
a) Sensory Receptor b) Sensory Neuron	
c) Interneurons d) Motor Neuron	
128. How is respiration found in amphibians, reptiles, birds and mammals?	
a) Moist skin b) Tracheal tubes c) Gills d) Vascularized lungs	
129. The cells are accumulated with the pro-teins called	
a) Aqueous humor b) Crystalline c) Sclera d) Choroid	
130. Which is the character of class Osteichthyes?	
a) Air bladder is present with or without a connection to the gut	
b) Excretory organs are mesonephric kidneys and are ammonotelic	
c) Sexes are separate, external fertilization is seen and most forms are oviparous	
d) All of the above	
131. The covering around each fascicle is the	
a) Epimysium b) Perimysium c) Endomysium d) Sarcolemma 132. What does mouth lead?	
a) Buccal cavity b) Oral cavity c) Both of these d) None of the above	
133. Which is antibacterial agent?	
a) Lysozyme b) Lysosome c) Glycoprotein d) All of the above	
134. The affected person can see the nearby ob-jects	
a) Fovea centralis b) Blind spot c) Myopia d) Hypermetropia	
135. Which is required for growth and repair of body cells?	
a) Carbohydrate b) Protein c) Lipid d) Vitamin	
136. Which is produced during amino acid breakdown is toxic?	
a) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles	
137. The cells of a tissue integrate in a highly coordinated fashion to perform a common function,	
due to the presence of nerve cells and sensory cells.	
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a) Acellularlevel Organisation b) Cellular level Organisation c) Tissue level Organisation d) Organ level Organisation d) All of the above chambered heart d) All of the above chambered heart d) All of the above d) A ventrally placed two chambered heart d) All of the above d) Political Districts of time? d) 120-125mL/min d) Political Districts of time? d) 120-125mL/min d) 170-180 L perday d) 120-125mL/min d) Individual Political Districts of the above d) 120-125mL/min d) Individual Political Districts of the above d) Individual Political Districts of the above d) Individual Political Districts of the above d) Individual Districts of the abov		
c) Tissue level Organisation d) Organ levelOrganisation 138. Which is the character of class Osteichthyes? a) Skin is covered by ganoid cycloid or clenoid scales b) Helps in gaseous exchange and for maintaining buoyancy c) A ventrally placed two chambered heart d) All of the above 19. Which is a parameter that reflects the amount of solute passing from the plasma to the urine in a given period of time? a) 120-125mL/min b) Renal clearance c) Tubular reabsorption d) 170-180 L perday 10. Jointed appendages in Arthropada which are used for a) locomotion b) feeding c) sensory d) all of the above 141. What is the layer of parasympathetic nerve fibres which controls peristalsis? a) Serosa b) Muscularis c) Submucosa d) Mucosa 142. What is the technical term tomineral salts like calcium and magnesium deposited and form a hard layer on the teeth? a) Tartar b) Calculus c) Both of these d) None of these 143. Which is the lack of myoglobin gives pale colour to the fibres? a) Red muscle fibres c) White muscle fibres d) Cartilage 144. The juveniles undergochanges into jornanisms, which led to the emerge of phylogenetic classification or a) Cladistics b) Tree diagram c) Cladogram d) All of the above 145. Later on biologists initiated studies on the evolutionary and genetic relationships among organisms, which led to the emerge of phylogenetic classification or a) Cladistics b) Tree diagram c) Cladogram d) All of the above 146. The presence of a large number of species in a particular ecosystem is called a) produce b) bio diversity c) consumer d) decomposer 147. Which is major source of cellular fuel? a) Carbohydrate b) Frotein c) Lipid d) Vitamin 148. Which is due to lack of oxygen supply to the heart muscles? a) Myocardial infarction b) is schemic heart disease c) Rheumatic fever d) CPR 149 is permeable to water, secretes K1 and reabsorbs Na1 to produce concentrated urine. a) T.5 Lever on b) Selective reabsorption c) Collecting duct d) Aquaporins 150. Due to aging, the lens loses elasticity and the power of		a) Acellularlevel Organisation b) Cellular level Organisation
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a) 120-125mL/min b) Renal clearance c) Tubular reabsorption d) 170-180 L per day 140. Jointed appendages in Arthropoda which are used for a) locomotion b) feeding c) sensory d) all of the above a) locomotion b) feeding c) sensory d) all of the above a) locomotion b) feeding c) sensory d) all of the above a) locomotion b) feeding c) sensory d) all of the above a) locomotion b) feeding c) sensory d) all of the above a) locomotion b) feeding c) sensory d) all of the above a) locomotion b) feeding c) sensory d) all of the above a) locomotion b) full distributions d) locomotion b) full distributions d) locomotion b) full distribution d) full distribution b) full distribution d) full distribution d	139.	Which is a parameter that reflects the amount of solute passing from the plasma to the urine in
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	MR. AY	YANAR., M.SC., B.ED., (LECTURER IN 7001 OGY), PRESIDENCY HR. SEC. SCHOOL

457	a) 1.5 L per day b) Selective reabsorption c) Collecting duct d) Aquaporins
157.	There is division of labour among the cells in sponges andtypes of cells are
	functionally isolated.
158.	a) same b) different c) all d) All of the above Whichis obtained when percentage saturation of haemoglobin with oxygen plotted against
150.	p02?
	a) Oxygen Haemoglobin Association Curve
	b) Oxygen Haemoglobin Dissociation Curve
	c) Both of these d)None of the above
159.	The distal convoluted tubule (DCT) of many nephrons open into a straight tube called
	a) Distal convoluted tubule b) Collecting duct
	c) Juxta medullary nephrons d) Glomerulus
160.	The heart consists ofwith ostia on either side.
444	a) Haemocytes b) 13 chambers c) Alary muscles d) Pulsatilevesicle
161.	Find odd one out - Diploblastic animals.
	a) Animals in which the cells are arranged in two embryonic layers , the external ectoderm, and internal endoderm
	b) In these animals the ectoderm gives rise to the epidermis
	c) They consist of middlemesoderm
	d) An undifferentiated layer present between the ectoderm and endoderm is the
	mesoglea.
162.	Which is the process of maintenance of constant internal environment?
	a) Homostasis b) Homeostasis c) Heterostasis d) All of the above
163.	Find odd one out - Endoderm.
	a) Gut b) Teeth c) Lung d) Liver
164.	Which is thetotal volume of air a person can exhale after normal inspiration?
	a) Vital capacity (VC) b) Inspiratory capacity (IC)
	c) Expiratory capacity (EC) d) Total Lung Capacity (TLC)
165.	A pair of are situated latero-ventrally in the 18th segment.
	a) Dorsal pores b) Coelomic fluid
	c) Female genital aperture d) Male genital apertures
166.	What is the name of inflammation of the inner lining of colon?
	a) Colimyelitis b) Colitis c) Both of these d) None of theabove
167.	The region between two successive Z-discs is called a
	a. sarcomere b. microtubule c. myoglobin d. actin
168.	Which is a small upward wave and indicates the depolarisation of the atria?
440	a) Electrocardiogram b) Sinu Auricular node c) P wave d) T wave
169.	The outer thick layer of cranial cavity is
170	 a) Duramater b) Arachnoid mater c) Piamater d) Subarachnoid space are helpful in removal of the excretory products from the haemolymph.
170.	a) Gizzard b) Enteric caecae c) Malphigian tubules d) Hindgut
171.	Cultivation of earthworms for the betterment of human beings
771.	a) Vermitech b) Vermiculture c) Vermicomposting d) Vermiwash
172.	It is the top most of the taxonomic hierarchy.
	a) Order b) Class c) Phylum d) Kingdom
173.	Mention the range of the mucus along with the bicarbonate ions from the pancreas provides
	an alkaline medium for the enzymatic action.
	a) pH 1.8 b) pH 5.47.4 c) pH 7.8 d) pH 7.0
174.	Identify the wrong match
	a. Bowmans capsule - Glomerular filteration
.D	b. DCT - Absorption of glucose
ΛΚ ΔΥ'	YANAR., M.SC., B.FD., (LECTURER IN 700LOGY), PRESIDENCY HR. SEC. SCHOOL

c. Henles loop - Concentration of urine d. PCT - Absorption of Na1 and K1 ions 175. Which of the following is not correctly paired? a) Humans - Ureotelic b) Birds - Uricotelic c) Lizards - Uricotelic d) Whale - Ammonotelic 176. The is a curved bar of bone. 2) Ischium b) Acetabulumc) Tarsus d) Metatarsus 177. A fused mouthpart which forms the floor of the mouth of an insect a) Articular membrane b) Clitellum c) Cochlea d) Labium have true nucleus and membrane bound organelles. a) Archaea b) Bacteria c) Eukarya d) All of these 179. What is the fluid inside the lymphatics? a) Serum b) Heparin c) Lymph d) Lymph nodes 180. Therun upto the 18th segment. a) Spermatogonia b) Clitary rosettes c) Vasa deferentia d) Prostategland 181include cartilage, bone and blood. a) Specialized connective tissue c) Tissue fluid d) Adipose tissue c) Tissue fluid d) Adipose tissue 182 is actually a muscle tear. a) Atrophyb) Muscle pull c) Arthritis d) Osteoarthritis 183. Which walls are guarded by semilunar valves? a) a) Capillaries b) Veins c) Coronary artery d) Open circulatory system 184. Internal bone surfaces are covered with a delicate connective tissue membrane called the in the columnar cells bear cilia on their free surfaces a) Metaphysis b) Periosteum c) Osteoblasts d) Endosteum 185. If the columnar cells bear cilia on their free surfaces a) Microvilli b) Goblet cell c) Cilidated epithelium d) Nonciliated epithelium type 186. Which character is not included in Chidarians? a) The polyp forms are sessile and cylindrical b) The medusa are umbrella shaped and free swimming c) Reproduce asexually by fragmentation or gemmule formation and sexually by the formation of genetes d) Exhibit alternation of generations in their life cycle (Metagenesis) 187. How many abdominal segments are present in male and female Cockroaches? a) 10, 10 b) 9, 10 c) 8, 10 d) 9, 9 188. Whichis a life saving procedure that is done at the time of emergency conditions such as when a personsbreath? a) Myocardial infarct		
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	193.	· · · · · · · · · · · · · · · · · · ·
MR. AYYANAR., M.SC., B.ED., (LECTURER IN ZOOLOGY), PRESIDENCY HR. SEC., SCHOOL		a) Aorta b) Cnoraate tenaineae c) Lub sound d) Dub sound
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	194.	Which character is not included in Cnidarians?
		a) Exhibit two basic body forms, polyp and medusa
		b) They are hermaphrodites
		c) The first group of animals to exhibit tissue level organisation and are diploblastic
		d) Serves the process of ingestion and egestion
	195.	Hypothalamus also acts as the
a)	Нурс	b) Infundibulum
ŕ		c) Mammillary bodies d) Satiety centre
	196.	helpful for the landing of the frog after leaping.
		a) Nictitating membrane b) Tympanic membranes
		c) Cloacal aperture d) Fore limbs
	197.	Ovarian funnels are present beneath the ovaries which continue into the
		a) 20 segments b) Regenerate c) Oviducts d) Spermathecae
	198.	Whichis a parasympathetic nerve that supplies the atrium especially the SA and the AV
	.,	nodes?
		a) Systemic circulation b) Pulmonary circulation
		c) Vagus nerve d) Hypertension
	199.	Buccopharyngeal respiration in frog
	.,,,	a) is increased when nostrils are closed
		b) Stops when there is pulmonary respiration
		c) is increased when it is catching fly
		d) stops when mouth isopened.
	200.	Theof connective tissue providesupport.
		a) Connective tissues b) Fibres
		c) Loose connective tissues d) Dense connective tissues
	201.	The action potential occurs in response to a threshold stimulus but does not occur at
		subthreshold stimuli is called .
a)	Sodi	um-Potassium pump b) Depolarization
۵,	5047	c) Threshold potential d) All or none principle
	202.	Which is a nucleotide molecule consisting of adenine, riboseand three phosphate
	ZUZ.	molecules?
a)	Ador	nosine triphosphate b) Neuromuscular junction
u)	Auer	c) Skeletal Muscle Glycogen Analysis d) 5000 glucose units
		c) Sketetut Muscle Gtycogen Anatysis u) 3000 gtacose antis
	203.	The RBCs are devoid of .
	203.	a)Nucleus and mitochondria b)Ribosomes and endoplasmic reticulum
		c) Both of these d) None of the above
	204.	are large, long and consist of thigh, shank and foot.
	207.	a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky tongue
	205.	Which is the character included in class Aves?
	203.	a) Sexes are separate with well marked sexual dimorphism
		b) In males, the testes are paired but in females, only the left ovary is well developed while
		the right ovary is atrophied
		c) Eggs are megalecithal andcleidoic
		d) All of the above
	206.	In which of the following organisms, self fertilization is seen.
	200.	a) Fish b) Round worm c) Earthworm d) Liver fluke
	207.	What is the weight of adult heart?
	20/.	a) Raymond de viessens b) Cardiac muscle c) Papillary muscles d)
	208.	Linear chromosome with histone proteins, ribosomes oftype is found in the
	200.	chloroplast and mitochondria.
		a) 70S b) 80S c) Both of these d) None of the above
		a) 103 b) 603 c) both of these a) None of the above
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209.	Which is the reduction in platelet number can lead to clotting disorders that result in excessive loss of blood from the body?
210.	a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets Whichmeans a brief electric shock is given to the heart to recover the function of the heart?
211.	a) William Harvey b) James Elam and Peter Safarc) CPR d) Defibrillation The bone cells (osteocytes) are present in the spaces called
212.	a) Bone b) Lacunae c) Blood d) Ehlers -Danlos syndrome Development isand no larva is formed during development.
2/2	a) Spermatophores b) Cocoons c) 2 - 3 weeks d) Direct
213.	membrane protects the eye when the frog is under water. a) Nictitating membrane b) Tympanic membranes
	c) Cloacal aperture d) Fore limbs
214.	What type of fibres are found in connective tissue matrix?
215.	 a) Collagen b) Areolar c) Cartilage d) Tubular transmits nervous impulses from the spinal cord to effectors.
	er system b) Motor neuron
,	c) Fibrous joints or Synarthroses d) Cartilaginous joints or Amphiarthroses
216.	Reproductive organs of frog on thedorsal body wall of peritoneum called
217.	a) Mesovarium b) Testis c) Ovisacs d) Tadpole After about , each cocoon produces baby earthworms.
217.	a) Spermatophores b) Cocoons c) 2 - 3 weeks d) Direct
218.	First step in digestion of fat is
	a) Emulsification b) Enzyme action
0.40	c) Absorption by lacteals d) Storage in adipose tissue
219.	allows recoil of tissues following stretching. a) Elastic connective tissue b) Specialised connective tissues
	c) Cartilages d) Bones
220.	
	the joints.
a) Rhe	umatoidarthritis b) Gouty arthritis or gout
204	c) Osteoporosis d) Endurance
221.	Which are less numerous than any other type of WBCs constituting 0.5%- 1.0% of the total number of leucocytes?
	a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
222.	Mention the reason of incomplete digestion is found in Platyhelminthes.
	a) Single opening to the exterior which serves as both mouth and anus
	b) Two openings to the exterior which serve as both mouth and anus
	c) Both of these d) None of these
223.	Which does hydrolyse peptide bonds associated with specific amino acids?
223.	a) Trypsin b) Chymotrypsin c) Chymotrypsinogen d) Enterokinase
224.	The part of cortex that extends in between the medullary pyramids is the
	a) Medullary pyramids b) Renal columns of Bertini
225	c) Renal hilum d) Renal corpuscle
225.	Ecosystem means a) a community of living organisms b) non-living environment
	c) their interrelationships d) All of the above
226.	is a large opening found at the pos-terior base of the skull.
a) Hyo	id bone b) Foramen magnum c) Atlas d) Sternum
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227.	A group of organisms having similar traits of a rank is
228.	a) Species b) Taxon c) Genus d) Family What is the name of duct of sublingual gland?
220.	a) Ampulla of vater b) Bartholins duct
	c) Crypts of leiberkuhn d) Falciform ligament
229.	Which is a character of Hemichordata?
	a) Excretion is by a single proboscis gland or glomerulus situated in the proboscis
	b) Nervous system is primitive
	c) Sexes are separate and sexual reproductionwith a free swimming tornaria larva
220	d) All of the above Enterocoelomate animals.
230.	a) The body cavity is formed from the mesodermal pouches of archenteron
	b) Echinoderms, hemichordates and chordates
	c) Both of these
	d) None of the above
231.	Find odd one out - Viviparous
	a) Platypus b)Kangaroo c) Pigeon d) Parrot
232.	How does call breakdown of the food into micromolecules?
	a) Ingestion b) Digestion c) Absorption d) Assimilation
233.	The key character of living organisms is
234.	a) adaptation b) homeostasis c) Both of these d) None of the above Schizocoelomates relates with
23 4 .	a) In these animals the body cavity is formed by splitting of mesoderm
	b) Annelids, arthropods, molluscs
	c) Both of these
	d) None of the above
235.	Which is the primary function of the respiratory system?
	a) To maintain the vocal cords for normal communication (vocalization)
	b) To remove the heat produced during cellular respiration through breathing
	c) Both of these d) None of the above
236.	In both thesexes, genital apertures are surrounded by sclerites called
250.	a) Genital pouch b) Gonapophysis c) Anal styles d) Anal cerci
237.	These are flagellated collar cells that create and maintain waterflow through The
	sponge thus facilitating respiratory and digestive functions.
	a) Pinacocytes b) Choanocytes c) Chaoanoflagellates d) All of the above
238.	In water, skin acts as aquatic respiratory organ
	a) Cutaneous respiration b) Diffusion
	c) Buccal respiration d) Pulmonary respiration
239.	
	a) An acute form of protein malnutrition
	b) Due to a diet with inadequate carbohydrate and protein
	c) Suffer from diarrhoea d) All of the above
240.	The development of cockroach is gradual through .
240.	a) Ovarioles b) Vagina c) Ootheca d) Paurometabolus
241.	was the first to classify all animals in his History of Animals.
	a) Carolus Linnaeus b) Aristotle
	c) Augustin Pyramus de Candole d) Charles Darwin
242.	acting on the afferent glomerular arterioles as a vasodilator or on efferent
	arterioles as a vasoconstrictor.
	a) Counter current multiplier b) Atrial Natriuretic Peptide or factor
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	c) Micturition d) 1 to 1 5 l
243.	c) Micturition d) 1 to 1.5L Which is the character not included in Vertebrata?
2 4 3.	a) They possess notochord during embryonic stage
	b) Possess paired appendages such as fins or limbs
	c) Alimentary canal is complete and circulatory system is of open type
	d) Skin is covered by protective skeleton comprising of scales, feathers, hairs, claws,
	nails
244.	There are 12 pairs of
	nial nerves b) Spinal nerves
, ·	c) Somatic neural system d) Autonomic neural system
245.	is light touch receptor lying in the deeper layer of epidermis.
	tile merkel disc b) Hair follicle receptors
,	c) Meissners corpuscles d) Pacinian corpuscles
246.	The ability of the eyes to focus objects at varying distances is called
	a) Retina b) Canal of schlemm c) Ciliary muscle d)
Acco	mmodation
247.	involves movement of the filtrate back into the circulation.
	a) 120-125mL/min b) Renal clearance
	c) Tubular reabsorption d) 170-180 L per day
248.	The scala media and scala tympani are sep-arated by a membrane called
a) Peri	lymph b) Basilar membrane c) Organ of corti d) Stereocilia
249.	What is meant by Protostomia?
	a) Anus is formed from or near the blastopore
	b) The mouth is formed away from the blastopore
	c) It includes only one subdivision Enterocoelomata
	d) The embryonic blastopore develops into mouth
250.	Trinomial Nomenclature was proposed by
	a) Huxley and Stricklandt b) Carolus Linnaeus
251.	c) Charles Darwin d) Aristotle What type of pressure occur while increasing pressure in lungs during inspiration?
231.	a) Interpulmonary pressure b) Intrapulmonary pressure
	c) Both of these d) None of the above
252.	Which meshwork after sometime fbrin fbrils contract, squeezing out a
	strawcoloured fluid?
	a) Serum b) Heparin c) Lymph d) Lymph nodes
253.	Which characters may found in Metamerism?
	a) The body is externally and internally divided into a series of repeated units called
	segments with a serial repetition of some organs
	b) Animals which possess notochord at any stage of their development
	c) The segments may look different and has different functions
	d) All of the above
254	lust behind the shareid playus the opi thelemus forms a short stall which ands in a
254.	Just behind the choroid plexus, the epi-thalamus forms a short stalk which ends in a
a) Enit	rounded body called halamus b) Choroid plexus c) Pineal body d) Melatonin
255.	Which doesoccur when the arteries are lined by atheroma?
£JJ.	a) Coronary heart disease b) Atherosclerosis c) Thrombus d) Stroke
256.	All living organisms can be classified into different taxa is called
	a) Taxonomy b) Classification c) Nomenclature d) Identification
257.	In adults the GFR is approximately .
	a) 120-125mL/min b) Renal clearance
	c) Tubular reabsorption d) 170-180 L perday
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258.	. Which is the inner layer of heart wall?	
	a) Epicardium b) Myocardium c) Endocardiu	m d) Pericardial space
259.		,
	a) Adipocytes b) Adipose tissue c) Brown fa	t d) White fat
260.		a) /////cc juc
200.	a) This phylum consists of a small group of wormlike, ac	orn worms
	b) They are bilaterally symmetrical, triploblastic and coeld	
	c) Their body is cylindrical and is divided into proboscis, of	
	d) All of the above	Lollar and a long trank
261.	, , , , , , , , , , , , , , , , , , ,	and characters which differ from
201.	the ancestral characters produced in .	ed characters which differ from
	a) Cladistics b) Cladogram c) Both of these	d) None of theabove
262.		
202.	and molluscs.	retory structures in armetias
	a) Flame cells b) Solenocytes c) Nematodes	d) Insects
263.		
,	, , , , , , , , , , , , , , , , , , ,	ph d) Conductive deafness
264.		JS.
	a) Microvilli b) Goblet cell	
245	c) Ciliated epithelium d) Nonciliated epithelium ty	•
265.	5	topes but not Joinea by deticate
	threads?	_
244	a) Granulocyte b) Neutrophils c) Eosinophils d) Basophil	
266.	, ,	egulation of body
	temperature?	
	a. Cerebellum b. Cerebrum c. Medulla obl	longata d. Hypothalamus
267.		
W.W	a) Sclerites b) Tergites c) Sternites d)	Pleurites
268.		
	a) 4.1 b) 9.45 c) 5.65 d) 9.1	
269.	, , , , , , , , , , , , , , , , , , , ,	
	a) Eosinophil b) Neutrophil c) Basophil d) Monoc	
270.	,	the sinusoids of the liver they are
	called Kupffer cells?	-1-4-
074	a) Agranulocytes b) Lymphocyte c) Macrophages d) Plate	elets
271.		
	a) Exocrine glands b) Endocrine glands	anith alicements up a
272	c) Compound epithelium d) Keratinized squamous	•
272.	,	
272	a) Rh1 b) Rh2 c) Erythroblastosisfoetalis d) Prothr . Scientists think Cockroach milk could be theof the fi	
273.	a) Moulting b) Allergen c) Diploptera puncta	
274		, , ,
274.	· · · · · · · · · · · · · · · · · · ·	
и	a) Neurilemma b) Dendrites c) Nissls granules	u) Axon millock
275	Which character is not included in Arthropoda?	
275.	·	is usually internal
	a) They are mostly dioecious and oviparous; fertilization i	s usually internal
	b) Development may be direct or indirect c) A soft layer of skip forms a mantle over the viscoral b	ump
	c) A soft layer of skin forms a mantle over the visceral h	•
274	d) Life history includes many larval stages followed by n	•
276.	. The skeleton of the arm, the region be-tween the shoumerus b) Glenoid cavity c) Olecranon process d) Pelvicgi	
,		
277.	. Flate-like cells that maintain the size and structure of	the sponge is
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-) D:	and the by Channes at an ay Channes Clausellation of All action above
•	cocytes b) Choanocytes c) Chaoanoflagellates d) All of the above
278.	Which is the amount of blood pumped out by each ventricle per minute?
	a) Ventricular diastole b) Cardiac output
	c) Systolic pressure d) Diastolic pressure
279.	is an examination of tissue or liquid removed from a living body.
	a) Biopsy b) Autopsy c) Skeletal muscle tissue d) Smooth muscle
280.	Match the following human spinal nerves in column I with their respective number in
	column II and choose the correct option
	COLUMN I COLUMN II
	P. Cervical nerves i. 5 pairs
	Q. Thoracic nerve ii. 1 pair
	R. Lumbar nerve iii. 12 pair
	S. Coccygeal nerve iv. 8 pair a. (P-
	iv), (Q-iii), (R-i), (S-ii)
	b. (P-iii), (Q-i), (R-ii), (S-iv)
	c. (P-iv), (Q-i), (R-ii), (S-iii)
••	d. (P-ii), (Q-iv), (R-i), (S-iii)
281.	Name the folds in wall of stomach.
	a) Gastric rugae b) Glissons capsule c) Goblet cell d) Haustra
282.	The externalvisceral layer is made of epithelial cells called
	a) Fenestrae b) Simple squamous epithelium
	c) Podocytes d) Filtration slits
283.	Which is a character of pseudocoelom?
	a) Animals which do not possess a body cavity
	b) Their body is solid without a perivisceral cavity
	c) Restricts the free movement of internal organs
	d) Acts as a hydrostatic skeleton and allows free movement of the visceral organs and for
	circulation of nutrients
284.	The blood flowing into the capillary from an arteriole has a highpressure.
	a) Homostatic b) Hydrostatic c) Homeostatic d) All of the above
285.	present in the tip of nose, outer ear, ear pinna, vertebral column, limbs.
	a) Elastic connective tissue b) Specialised connective tissues
	c) Cartilages d) Bones
286.	Acts as a reservoir of water and salts for body tissues, hence aptly called
	a) Specialized connective tissues b) Areolar connective tissue
	c) Tissue fluid d) Adipose tissue
287.	appears to be multi-layered because the nuclei lie at different levels.
	a) Pseudo-stratified epithelial b) Glandular epithelium
	c) Goblet cells d) Salivary gland
288.	Inis the length of the muscle does not change but the tension of the muscle
	changes.
a) Isoto	onic contraction b) Isometric contraction
	c) Myosin d) Oxidative fibres
289.	Harmful Bacteriais called
	a) Probiotic b) Pathogenic c) Cyanobacteria d) All of the above
290.	From Aschelminthes to Chordates, all animals have a complete digestive system with
,	a) Single opening to the exterior which serves as both mouth and anus
	b) Two openings to the exterior which serve as both mouth and anus
	c) Both of these
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	d) Manage of the second
204	d) None of these
291.	are used inflight.
	a) Metathorax b) Tergum c) Sternum d) Boat
292.	A small depression present in the centre of the yellow spot is called
•	ea centralis b) Blind spot c) Myopia d) Hypermetropia
293.	
	ropic bands b) H-Zone c) M-line d) Z-disc
294.	
	a) Hypognathous b) Orthopterus c) Hypopharynx d) Prothoracic
295.	The anterior part of epithalamus is vascular
	halamus b) Choroid plexus c) Pineal body d) Melatonin
296.	Which of the plasma of A, B and O individuals have?
	a) Surface antigens b) Natural antibodies
	c) Agglutinogens d) Glycosyltransferase
297.	The respiratory structures of insects are
	a. tracheal tubes b. gills c. green glands d. lungs
298.	How is respiration found in arthropods and molluscs?
	a) Moist skin b) Tracheal tubes c) Gills d) Vascularized lungs
299.	The first neuron involved in the synapse forms the
a) Pre	synaptic neuron b) Cleft
	c) Exocytosis d) Brain
300.	Find odd one out.
	a) Ostrich b) Emu c) Penguin d) Pigeon
301.	In sponges, the outer layer is formed of
	a) Pinacocytes b) Choanocytes c) Chaoanoflagellates d) All of the above
302.	Which of the central nervous system are the microgliain the pulmonary region they are
	the alveolarmacrophages?
202	a) Agranulocytes b) Lymphocyte c) Macrophages d) Platelets
303.	Protruding from the apical part of each hair cell is hair like structures
,	ilymph b) Basilar membrane c) Organ of corti d) Stereocilia
304.	, ,
	a) Annelida b) Echinodermata c) Arthropoda d) Coelenterata
305.	maintains the pulsatile flow of blood through the arteries.
505.	a) Elastic connective tissue b) Specialised connective tissues
	c) Cartilages d) Bones
306.	perform cementing to keep neighbouring cells together.
500.	a) Tight junctions b) Adhering junctions
	c) Gap junctions d) Connective tissue
307.	is composed of a single layer of cells.
	a) Simple épithelium b) Squamous epithelium
	c) Columnar epithelium d) Cuboidal epithelium
308.	There are some exceptional animals whichcan produce sterile offspring because of mating
	with closely related.
	a) Species b) Genus c) Family d) Order
309.	Which is the character of Chondrichthyes?
	a) Skin is tough covered by dermal placoid scales and the caudal fin is heterocercal
	b) Their jaws are very powerful and are predaceous animals
	c) Ureotelic and store urea in their blood to maintain osmotic concentration
	d) All of the above
310.	is nocturnal and during the day it lives in burrows.
	a) Frog b) Earthworms c) Epigeics d) Anecics
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311.	Which is the character not included in Urochordata or Tunicata?
	a) Notochord is present only in the tail region of the larval stage
	b) Dorsal tubular nerve cord is present in the larval stage and a single dorsal
	ganglion is present in the adults
	c) Retrogressive metamorphosis isseen
	d) Closed type of circulatory system is seen without heart
312.	starts from the 7th segment and continues till the last segment.
	a) Hydrostatic skeleton b) Kalin c) Intestine d) Typhlosole
313.	Vocal sacs andare absent in the female frogs.
	a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky tongue
314.	Dissolved oxygen exchanged through the skin by
	a) Cutaneous respiration b) Diffusion
	c) Buccal respiration d) Pulmonary respiration
315.	What is the opening of egestion of faeces?
	a) Roughage b) Defaecation c) Both of these d) None of the above
316.	absent in the female.
	a) Genital pouch b) Gonapophysis c) Anal styles d) Anal cerci
317.	is the basic unit of classification.
	a) Species b) Genus c) Family d) Order
318.	Whichis an autoimmune disease which occurs 2-4 weeks after throat infection usually a
	streptococcal infection?
	a) Myocardial infarction b) Ischemic heart disease
	c) Rheumatic fever d) CPR
319.	Find odd one out - Amphibia.
•	a) Catla b) Hyla c) Rohu d) Exocoetus
320.	
320.	a) Asymmetrical b) Diploblastic c) Bilateral d) Triploblastic
321.	Each muscle is made up of bundles of muscle fibrescalled
a) Meso	
322.	
JZZ.	- I Column - II
	(P) Small intestine (i) Largest factory
	(Q) Pancreas (ii) Absorpstion of glucose
	(R) Liver (iii) Carrying electrolyticsolution
	(S) Colon (iv) Digestion and absorption
	a. (P-iv)(Q-iii)(R-i)(S-ii) b. (P-iii)(Q-ii)(R-i)(S-iv) c. (P-iv)(Q-iii)(R-i)(S-ii) d. (P-ii)(Q-iv)(R-iii)(S-i)
222	
323.	protectsthe hind wings when at rest, and is called elytra or a) Cervicum b) Hexapoda c) Tarsomeres d) Tegmina
224	, , , , , , , , , , , , , , , , , , , ,
324.	Dub sound of heart is caused by
	a.Closure of atrio-ventricular valves b.Opening of semi-lunar valves c.Closure of
225	semi-lunar values d.Opening of atrio-ventricular valves.
325.	Each segment is covered by the ventral
207	a) Metathorax b) Tergum c) Sternum d) Boat
326.	Which is catalysedthe attachments of the terminal amino acids are dependent on the
	gene products of A and B?
	a) Surface antigens b) Natural antibodies c) Agglutinins d) Glycosyltransferase
327.	is enclosed in the vertebral column.
	a) Foramen magnum b) Spinal cord c) Cranial d) Spinal
328.	Which does infection mainly occur in the lungs and bones?
	a) Asthma b) Emphysema c) Pneumonia d) Tuberculosis
329.	is the principal constituent of the thin filament.
a) Sarc	omere b) Actin c) Meromyosin d) G-actin
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330.	Which is the enzyme acted on trypsinogen?
	erokinase b) Succusentericus c) Both of these d) None of the above
331.	Find odd one out.
	a) Procedure b) Environmental adaptations
	c) Interrelationshipbetween species d) Evolutionary history of the species
332.	Each kidney weighs an average of
	a) Crustaceans b) Nephron c) Aglomerular kidneys d) 120-170 grams
333.	is the fluid connective tissue containing plasma, RBC, WBC and platelets.
	a) Bone b) Lacunae c) Blood d) Ehlers -Danlos syndrome
334.	What is the technical termto expulsion of air from the lungs?
33 1.	a) Inspiration b) Expiration c) Both of these d) None of the above
335.	It is a taxonomic category which includes a group of related genera.
333.	a) Species b) Genus c) Family d) Order
224	
336.	Each ampulla has a sensory area known as
a) sens	sory-neural deafness b) Otoliths
	c) Crista ampullaris d) Chemoreceptors
337.	supply the renal tissue, involved in exchanges with the fluid in the tubular region.
	a) Peritubular capillaries b) Juxtaglomerular apparatus
	c) Peritubular capillaries d) Hypernephroma
338.	The solute concentration of a solution of wateris
	a) Tubular secretion b) Osmolarity
	c) Countercurrent exchanger d) Hypothalamus
339.	Watery fluidis called in eye.
a) Aqu	eous humor b) Crystalline c) Sclera d) Choroid
340.	
	pleasure, pain, anger, fear, sexual feeling and affection.
a) Emo	otional brain b) Brain stem c) Mid brain d) Corpora quadrigemina
a) Aau	Fibrous layer of eye is eous humor b) Crystalline c) Sclera d) Choroid
342.	, ,
2.42	a) Arteries b) KiloPascal (KPa) c) Small sphincter d) Anastomoses
343.	Initially the classification was based on organisms fundamental characteristics
	a) habitat b) morphology c) both of these d) none of these
344.	Which does carry motor impulses from the CNS?
a) Neu	, ,,
	c) Efferent neurons d) Interneurons
345.	Mention the range to make bicarbonates in the saliva?
	a) pH 1.8 b) pH 5.4 7.4 c) pH 7.8 d) pH 7.0
346.	Which is the contraction and relaxation of the smooth muscles results in
	vasoconstriction and vasodilation?
	a) Lymphocytes b) Tunica intima c) Tunica media d) Tunica externa
347.	How does mucus adhering the masticated food?
	a) Chyme b) Bolus c) Both of these d) None of the above
348.	Find odd one out - Aves.
	a) Peacock b) Crow c) Krait d) Vulture
349.	Specimens of both extinct and living organisms can be studied.
•	a) Taxonomical keys b) Museums c) Zoological parks d) Marine pa
350.	The process of release of urine from the bladder is called
550.	a) Counter current multiplier b) Atrial Natriuretic Peptide or factor
	c) Micturition d) 1 to 1.5L
351.	Which is the character of fluid inside thecells?
331.	a) Intercellular b) Intracellular c) Extracellular d) All of the above
252	
352.	Which is optimum for pepsin, kills bacteria and other harmful organisms and avoids
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	putrifactionin stomach? a) pH 1.8 b) pH 5.47.4 c) pH 7.8 d) pH 7.0
353.	The advancement in molecular techniques and biochemical assays has led to a new
	classification is called a) Two Domain Classification b) Three Domain Classification c) Five Domain Classification d) Seven Domain Classification
354.	Which type of alveolithat gases can diffuse rapidly through them? a) Type I cells b) Type II cells c) Surfactant d) All of the above
355.	Periplaneta is a swift runner animal called a) Fishing b) Cockroach c) Cursorial d) Vectors
356.	Which of the following is not the function of liver? a) Production of insulin b) Detoxification
357.	c) Storage of glycogen d) Production of bilealso called renal stone or nephrolithiasis.
337.	a) Uremia b) Renal calculi c) Pyleothotomy or lithotripsy d) Glomerulo nephritis
358.	What is the dental formula in rabbit?
359.	a) 2033/1023 b) 0033/3133 c) 3142/3143 d) 2123/2123 It measures the degree of genetic similarity between pools of DNA sequences.
	a) DNA barcoding b) DNA hybridization c) DNA fingerprinting d) All of theabove
360.	attached to the lining of the body wall from the 14th segment to the last segment. a) Supra - pharyngeal ganglia b) Tufted nephridia
241	c) Integumentary nephridia d) Septal nephridia Antennal glands or green glands perform excretory function in .
361.	a) Crustaceans b) Nephron c) Aglomerular kidneys d) 120-170 grams
362.	In which the two types of lymphocytes are B and T cells? a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
363.	Which is produced while liver breaking the excess amino acids? a) Ammonia b) Urea c) Uric acid d) All of the above
364.	are involuntary as their functions cannot be directly controlled. a) Biopsy b) Autopsy c) Skeletal muscle tissue d) Smooth muscle
365.	Longest species of Earthwormis an African giant earthworm. a) Microchaetus rappi b) Drawida nilamburansis c) Coelom d) Coelomocytes
366.	How is respiration found in earthworm? a) Moist skin b) Tracheal tubes c) Gills d) Vascularized lungs
367.	The mouth parts are directed downwards so it is a) Hypognathous b) Orthopterus c) Hypopharynx d) Prothoracic
368.	Which is the character not included in Cephalochordata?
	 a) Marine forms, found in shallow waters, leading a burrowing mode of life b) Body is unsegmented and covered by a test or tunic c) Sexes are separate, Fertilization is external
2/0	d) Excretion is by protone phridia
369.	Which is the character of Nicotine? a) It is the chemical that causes addiction
	b) It is a stimulant which makes the heart beat faster c) Raised blood pressure and coronary heart diseases
<i>37</i> 0.	d) All of the above K+ ion gates are more permeable to K+ even after reaching the threshold level .
374	a) Repolarisation b) Hyperpolarization c) Lazy gates d) Nodes of Ranvier
371. MR ΔΥ	cells have no definite nucleus and DNA exists as a circular chromosomes and do not YANAR., M.SC., B.ED., (LECTURER IN ZOOLOGY), PRESIDENCY HR. SEC. SCHOOL
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	have histones associated with it.
272	a) Archaea b) Bacteria c) Eukarya d) All of these Where does RBCs move quickly?
372.	a) Cell b) Plasma c) Haemoglobin d) Liver
373.	A tube calledconnects the middle ear cavity with the pharynx a) Cataract b) Ceruminous glands c) Middle ear d) Eustachiantube
374.	Linear chromosome with histone proteins, ribosomes oftype is found in the cytosol.
275	a) 70S b) 80S c) Both of these d) None of the above
<i>37</i> 5.	Due to the changes in nature of protein, the lens becomes opaque a) Cataract b) Ceruminous glands c) Middle ear d) Eustachian tube
376.	A scientific stage that is not basic to taxonomy.
	a) Documentation b) Classification c) Nomenclature d) Identification
377.	is the anterior most and largest part of brain.
	a) Autonomic Nervous System b) Brain
	c) Prosencephalon d) Telencephalon
<i>37</i> 8.	Frog belongs tophylum.
270	a) Chordata b) Streamlined c) Dark green d) Pale
379.	Which constitute 1-3% of the total WBCs? a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
380.	The tissues are called the
555.	a) issues b) Organs c) Living fabrics d) Organ systems
381.	Food is capturedby thetongue.
	a) Liver b) Bilobed c) Hydrochloric acid d) Chyme
382.	Whichis the most common gastrointestinal disorder worldwide?
202	a) Peptic ulcer b) Appendicitis c) Hiatus hernia d) Diarrhoea
383.	Which is of irregular bowel movement due to poor intake of fibre in the diet and lack of physical
	activities? a) Indigestion b) Constipation c) Both of these d) None of the above
384.	have low rates of myosin ATP hy-drolysis but have the ability to make large
	amounts of ATP.
	a) Slow - oxidative fibres b) Fast - oxidative fibres
	c) Fast - glycolytic fibres d) Hydrostatic skeleton
385.	Whichis seen in Arthropods and most Molluscs?
	a) Capillaries b) Veins c) Coronary artery d) Open circulatory system
386.	In which tunica media and elastin fibres are absent?
207	a) Capillaries b) Veins c) Coronary artery d) Open circulatory system
387.	Lateral line sense organs occur in a) Salamander b) Frog c) Water snake d) Fish
388.	Choroid plexus is a network of blood cap-illaries found in the roof of the ventricles and
300.	forms .
	a) Lateral ventricles I and II b) Septum pellucidum
	c) Aqueduct of Sylvius d) Cerebro spinal fluid
389.	facilitates reabsorption of water by increasing the number of aquaporins.
	a) Osmoreceptors b) ADH
	c) Angiotensin Converting Enzyme inhibitors d) Diabetes insipidus
390.	The external parietal layer of the Bowmans capsule is made up of
	a) Fenestrae b) Simple squamous epithelium
204	c) Podocytes d) Filtration slits
391.	Which character is not included in Ctenophora? a) Larval stages such as parenchymula and amphiblastula with indirect development
	b) Exclusively marine, radially symmetrical, diploblastic animals
	2) Exclusively mainly radially symmetrical, diproblement annuals
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	c) Though they are diploblastic, their mesoglea is different from that of cnidaria d) It contains amoebocytes and smooth muscle cells
392.	A new species of ahas been discovered and named after Scientist Varad Giri,Cyrtodactylus varadgirii.
	a) Ground-dwelling lizard b) Cyrtodactylus
	c) Both of these d) None of the above
393.	Which character is not included in Aschelminthes?
	a) Excretory system consists of rennet glands
	b) First segmented animals to evolve
	c) Sexes are separate; and exhibit sexual dimorphism; females are longer than males
	d) Fertilisation is internal; majority are oviparousfew are ovoviviparous
394.	Find odd one out - Bilateral symmetry.
	a) Animals which have two similar halves on either side of the central planeb) It is an advantageous type of symmetry in triploblastic animals
	c) Animals that have dorsal and ventral sides, anterior and posterior ends, right and left
	sides are bilaterally symmetrical
	d) Symmetry is found inctenophores
395.	is a terrestrial invertebrate.
	a) Lampito mauritii b) Frog c) Epigeics d) Anecics
396.	The functioning of kidneys is efficiently monitored and regulated by
	a) Tubular secretion b) Osmolarity
207	c) Counter current exchanger d) Hypothalamus Who did relate with scientific system of taxonomy and binomial nomenclature?
397.	a) Theophrastus b) John Ray c) Carolus Linnaeus d) Ernst Haeckal
398.	If earthworm gets cut after the 20th segment, the anterior half can
7,5,	a) 20 segments b) Regenerate c) Oviducts d) Spermathecae
399.	is composed of single layer of tall cells with round to oval nuclei at the base.
	a) Simple epithelium b) Squamous epithelium
	c) Columnar epithelium d) Cuboidal epithelium
4 00.	is a polypeptide hormone released by atrial myocytes.
	a) Haemodialysis b) Kidney transplantation c) Joseph E d) Atrial natriuretic peptide
401.	produces "milk" to feed their live-born young.
101.	a) Moulting b) Allergen c) Diploptera punctata d) Super food
402.	Intercostal muscles are found between the
	a. vertebral column b. sternum c. ribs d. glottis
403.	is widely distributed in the body.
	a) Tight junctions b) Adhering junctions
404	c) Gap junctions d) Connective tissue Which are phagocytic cells that are similar to most cells and have kidney shaped pushous?
404.	Which are phagocytic cells that are similar to mast cells and have kidney shaped nucleus? a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
405.	Name of the joint present between the atlas and axis is
	a. synovial joint b. pivot joint c. saddle joint d. hinge joint
406.	Which is the condition of Premature Babies have low levels of surfactant in the alveoli may
	develop?
	a) Newborn Respiratory Distress Syndrome (NRDS)
	b) Nasal Continuous Positive Airway Pressure (NCPAP)
	c) Acute Respiratory Distress Syndrome (ARDS)
407.	d) All of the abovenerves are 10 pairs in frog.
40/.	a) Foramen magnum b) Spinal cord c) Both a & b d) Spinal
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408.	·
400	a) Vomiting b) Jaundice c) Liver cirrhosis d) Gall stones
409.	Excessive stretch of cardiac atrial cells cause an increase in blood flow to the atria of the
	heart and release a) Counter current multiplier b) Atrial Natriuretic Peptide or factor
	c) Micturition d) 1 to 1.5L
410.	, ,
	a) Peptic ulcer b) Appendicitis c) Hiatus hernia d) Obesity
411.	Thecalled the brain.
	a) Supra-oesophagial ganglion b) Endocrine centre c) Sub-oesophageal ganglion d) Circum-oesophageal
412.	Heart is covered by a double-walled membranecalled
112.	a) Gaseous exchange b) Pericardium
	c) Sinus venosus d) Truncus arteriosus
413.	What is the technical termto enter the air passages into the lungs?
	a) Inspiration b) Expiration c) Both of these d) None of the above
414.	secrete mucus, saliva, digestive enzymes and other cell products.
	a) Exocrine glands b) Endocrine glands
445	c) Compound epithelium d) Keratinized squamous epithelium type
415.	The sperm develops earlier than the production of ova a) Nephrostome b) Chloragogen cells c) Monoecious d) Protandrous
416.	The sclerites of the dorsal side are called
110.	a) Sclerites b) Tergites c) Sternites d) Pleurites
417.	Respiratory system of cockroach is formed of
	a) Spiracular muscles b) Spiracles c) Open type d) Haemolymph
418.	carry oxygen to the entire body.
	a) Salivary glands b) Trachea c) Stigmata d) Tracheoles
419.	is made of a single thin layer of flattened cells.
	a) Simple epithelium b) Squamous epithelium c) Columnar epithelium d) Cuboidal epithelium
420.	· · · · · · · · · · · · · · · · · · ·
120.	a) Sucrose, D-galactose b)N-acetyl glucosamine
	c) 11 terminal amino acids d) All of the above
421.	are the large egg shaped receptors found scattered deep in the dermis.
	a) Tactile merkel disc b) Hair follicle receptors
	c) Meissners corpuscles d) Pacinian corpuscles
422 .	Which is the duct of salivary gland?
422	a) Stensons duct, b) Whartons duct c) Bartholins duct d) All of the above Whichmay partially block the coronary artery and reduce the blood supply to the heart?
423.	a) Cerebral infarction b) Angina pectoris c) Atheroma d) Chest pain
424.	The respiratory pigment in cockroach is
	a) Haemoglobin b) Haemocyanin c) Oxyhaemoglobin d) Haemoerythrin
425 .	Digestion of food takes place by the action of
	a) Liver b) Bilobed c) Hydrochloric acid d) Chyme
426 .	Which have large round nucleus and small amount of cytoplasm?
407	a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
427.	It is an evolutionary classification based on how a common ancestry was shared. a) Cladistics b) Tree diagram c) Cladogram d) All of the above
428.	Which does increase during certain types of parasitic infections and allergic
120.	reactions?
	a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
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429.	In which the two types of lymphocytes are B and T cells? a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
430.	Where is haemoglobin dissolved?
431.	 a) Protoplasm b) Cytoplasm c) Cell d) All of the above found in the organs of absorption, secretion and filtration.
	a) Simple epithelium b) Squamous epithelium c) Columnar epithelium d) Cuboidal epithelium
<i>4</i> 32.	Which is defective liver fail to break down haemoglobin?
422	a) Vomiting b) Jaundice c) Liver cirrhosis d) Gall stones
433.	The earthworm has no speciallike lungs or gills. a) Intestinal caecae b) Vermicasts c) Respiratory organs d) Oxygen
434.	Which is the character included in class Aves?
	a) Exoskeleton consists of epidermal feathers, scales, claws on legs and the horny covering
	on the beak
	b) Endoskeleton is fully ossified (bony) and the long bones are pneumatic bonesc) Respiration is by compact, elastic, spongy lungs
	d) All of the above
435.	Which does common in scuba divers?
100.	a) Nitrogen narcosis b) Oxyhaemoglobin
	c) Haemoglobin d) All of theabove
<i>4</i> 36.	Cladogram considers the following characters
	a) Physiological and Biochemical b) Evolutionary and Phylogenetic
	c) Taxonomic and systematic d) None of these
437.	It enables us to study their food habits and behaviour.
	a) Taxonomical keys b) Museums
	c) Zoological parks d) Marine parks
438.	Which gets deposited in synovial joints?
420	a) Metaphysis b) Myasthenia gravis c) Metaphysis d) Gouty arthritis or gout
439.	Which is emulsified fat? a) Glyceraldehyde b) Triglycerides c) Diglycerides d) Monoglycerides
440.	a) Glyceraldehyde b) Triglycerides c) Diglycerides d) Monoglycerides Which character is not included in Platyhelminthes?
440.	a) Absorbs nutrients directly from the host through their body surface
	b) Has an incomplete digestive system.
	c) The body of these worms is circular (round)
	d) Specialized excretory cells called flame cells help in osmoregulation and excretion
441.	present on the lateral side of the body.
	a) alivary glands b) Trachea c) Stigmata d) Tracheoles
442.	Which are absent in arteries and have a narrow lumen?
442	a) Valves b) KiloPascal (KPa) c) Small sphincter d) Anastomoses
443.	Which character is not included in Aschelminthes? a) Some members like Planariashow high regeneration capacity
	b) They are bilaterally symmetrical, triploblastic and pseudocoelomate animals
	c) The body is unsegmented and covered by a transparent, collagenous cuticle
	d) The alimentary canal iscomplete
444.	Which are characterised by the presence of granules in the cytoplasm?
	a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
445.	What is the characteristic feature of respiratory surface?
	a) Surface area must be very large b) Richly supplied with blood vessels
	c) Should be extremely thin and kept moist d) All of the above
446.	Rotation of the eye ball is
447	a) Trigeminal nerve b) Trochlear nerve c) Vagus d) Hypoglossal
447.	Which is the amount of air that moves into the respiratory passage per minute? a) Minute Respiratory Volume b) Inspiratory capacity
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448.	c) Expiratory capacity d) Dead space The widened opening for each of the semi-circular canals, containing sensory innervations .
449.	a) Ampulla b) Depolarization c) Properioception d) Septumpellucidum It is a group of animals having similar morphological features (traits) and is reproductively isolated to produce fertile offspring.
	a) Species b) Genus c) Family d) Order
450 .	The male frog has a pair ofon the ventral side.
	a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky tongue
451 .	is the motor centre.
	a) Supra-oesophagial ganglion b) Endocrine centre
	c) Sub-oesophageal ganglion d) Circum-oesophageal
452 .	is situated in the cranial cavity.
	a) Autonomic Nervous System b) Brain
453	c) Prosencephalon d) Telencephalon
453.	The hindgut is marked by the presence of 100 - 150 yellow coloured
45.4	a) Gizzard b) Enteric caecae c) Malphigian tubules d) Hindgut
454.	Final digestion takes place in the
	a) Intestine b) Microvilli c) Rectum d) Cloaca
	455. present as paired tufts in the 5th -9th segments.
	a) Supra - pharyngeal ganglia b) Tufted nephridia
151	c) Integumentary nephridia d) Septal nephridia
456.	is the basic unit of classification in the taxonomic hierarchial system.
457	a) Species b) Genus c) Family d) Order
457.	This is used to amplify a specific gene, or portion of gene.
	a) Restriction Fragment Length Polymorphisms (RFLP)
	b) Polymerase Chain Reaction (PCR)
	c) Both of these
450	d) None of the above Lymph is colourless because
458.	a) WBC are absent b)WBC are present c)Heamoglobin is absent d)RBC are absent
450	The pressure exerted on the oval window is about more than that on the
459.	•
	tympanic membrane.
	a) Tectorial membrane b) 20 times
440	c) Perilymph d) Conductive deafness
460.	The cytoplasm of the muscle fibre is called the
444	a) Sarcoplasm b) Myoglobin c) Glycosomes d) Anisotropicbands
461.	Muscles are derived from a. ectoderm b. mesoderm c. endoderm d. neuro ectoderm
462.	The absence of nucleus, mitochondria, ribosomes and endoplasmic reticulum
	elles accommodates more haemoglobin thereby the oxygen carrying
or garre	capacity of the cell.
	a) Maximising b)Minimising c) Equalising d) No change
463.	propels mucus by ciliary actions.
	Microvilli b) Goblet cell c) Ciliated epithelium d) Nonciliated epithelium type
464.	What is the name the colon is lined by dilations?
107.	a) Peyers patches b) Crypts of Leiberkuhn
	c) Vermiform appendix d) Haustra
465.	The removal of ammonia or other metabolic alternatives such as urea and uric acid
705.	a) Osmotic homeostasis b) Osmoregulators c) Stenohaline d) Euryhaline
466.	Mention the technical term tonarrow gap between the gums and enamel and causes
100.	mention and comment continuous gap become in gamb and chamet and causes
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	to the many attitue?
	inflammation?
4 67.	a) Tartar b) Calculus c) Plaque d) Gingivitis Among the metazoans, cells may begrouped together to form tissues, organ and organ
1 07.	systems.
	a) functionally isolated b) similar kinds of cells
	c) Both of these d) None of the above
468.	receives sensory input from internal and external environment.
700.	a) Neurons b) Sensory functions
	c) Motor functions d) Autonomic functions
469.	This category includes one or more related orders with some common characters.
	a) Order b) Class c) Phylum d) Kingdom
470.	Which character is not included in Platyhelminthes?
	a) Sexes are not separate (monoecious)
	b) Fertilisation is internal and development is through larval stages
	c) Polyembryony is common
	d) They are free living or parasitic on aquatic and terrestrial plants and animals
471.	Fibres that contain few mitochondria but possess ahigh concentration of glycolyt-ic
	enzymes and large stores of glycogen are called
a) Red	muscle fibres b) Glycolytic fibres
	c) White muscle fibres d) Cartilage
472.	store the eggs temporarily.
	a) Mesovarium b) Testis c) Ovisacs d) Tadpole
<i>47</i> 3.	Further advancement over the tissue level of organization is
	a) Acellularlevel of Organisation b) Cellular level of Organisation
	c) Tissue level of Organisation d) Organ level of Organisation
474.	prevent the backward flow of the blood.
	a) Lampito mauritii b) Paired valves c) Ventral vessel d) Lateral hearts
4 75.	After a long deep breath, we do not respire for some seconds due to a more
	CO_2 in the blood b.more O_2 in the blood c.less CO_2 in the blood d.less O_2 in the blood
174	Which is the character not included in class Amphibia?
476.	a) Eyes have eyelids and the tympanum represents the ear
	b) Kidneys aremesonephric
	c) Internal fertilization takes place and all are oviparous
	d) They are oviparous and development is indirect
4 77.	Which is usually surround the heart in the manner of a crown?
177.	a) Capillaries b) Veins c) Coronary artery d) Open circulatory system
<i>47</i> 8.	The ventricle III is continuous with the ventricle IV in the hind brain through a ca-nal called
	·
	a) Lateral ventricles I and II b) Septum pellucidum
	c) Aqueduct of Sylvius d) Cerebro spinal fluid
479.	Name the pouch like dilation in the colon.
	a) Gastric rugae b) Glissons capsule c) Goblet cell d) Haustra
480.	Which structure in the ear converts pressure waves to action potentials?
	a. Tympanic membrane b. Organ of Corti
(c. Oval window d. Semicircular canal
4 81.	Theis a long, slender, cylindrical ner-vous tissue.
	a)Spinal cord b) Caudaequina
	c) Cervical enlargement d) Lumbar enlargement
482.	The spiracles open and close by valves regulated by
	a) Spiracular muscles b) Spiracles c) Open type d) Haemolymph
483.	Match column I with column II and choose the correct option Column
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Column - II
        (P) Lipase
                      (i) Starch
        (Q) Pepsin
                      (ii) Cassein
        (R) Renin
                       (iii) Protein
        (S) Ptyalin
                      (iv) Lipid
        a. (P-iv)(Q-ii)(R-i)(S-iii)
                                           b. (P-iii) (Q-iv) (R-ii) (S-i)
        c. (P-iv)(Q-iii)(R-ii)(S-i)
                                           d. (P-iii) (Q-ii) (R-iv) (S-i)
        Respiration by lungs is called
        a) Cutaneous respiration
                                      b) Diffusion
                                      d) Pulmonary respiration
        c) Buccal respiration
        The triangular muscles are responsible for blood circulation
  485.
                             b) 13 chambers
                                                                         d) Pulsatilevesicle
        a) Haemocytes
                                                   c) Alary muscles
        A person having both antigen A and antigen B on the surface of RBCs belongs to blood group
  486.
                   b) B
                            c) AB
                                        d) 0
        Which are involved in blood clotting?
  487.
        a)Albumin
                         b) Globulin
                                          c) Prothrombinand Fibrinogen d) All of the above abov
        In small intestine, active absorption occurs in case of
  488.
                        b) Amino acids
                                             c) Na+
                                                           d) All the above
        a) Glucose
            can also affect heart, lungs and eyes.
  489.
        a) Stickler syndrome
                                    b) Rhabdomyosarcoma
        c) Rheumatoid arthritis
                                    d) Sjogrens syndrome
        ___is richly vascularised indicating its high metabolic activity.
  490.
        a) Adipocytes
                           b) Adipose tissue
                                                  c) Brown fat
                                                                     d) White fat
  491.
        in 7th sternum distinguishes the male from the female.
        a) Gynovalvular plates
                                   b) Foregut
                                                    c) Crop
                                                                  d) Proventriculus
        Which is a defensive mechanism against over dilation of lungs?
  492.
                          b) Epiglottis c) Haemoglobin
                                                                  d) Herring-Breuerreflex
        a) Dyspnoea
             explains the evolutionary connection of species by the process of natural selection.
  493.
        a) Origin of Species
                                              b) Systema naturae
        c) Historia Generalis Plantarum
                                            d) Tautonymy
        What is the other name of salivary amylase?
  494.
        a) Pepsin
                       b) Trypsin
                                        c) Ptyalin
                                                       d) Enterokinase
        Mammals and terrestrial amphibians mainly excrete urea and are called
  495.
        a) Ureoteles
                          b) Earthworms
                                               c) Primitive kidneys
                                                                        d) Kidneys
        What is the process of theelimination of the undigested substances?
  496.
                                        c) Absorption
        a) Ingestion
                         b) Digestion
                                                               d) Egestion
        Appendicular skeleton is
  497.
        a. girdles and their limbs
                                            b. vertebrae
        c. skull and vertebral column
                                            d. ribs and ternum
            transmits motor commands from the brain to the skeletal and muscular system.
  498.
     a) Neurons
                    b) Sensory functions c) Motor functions d) Autonomic functions
  499.
        Sinuses are referred as
                                                  b) Closed circulatory system
        a) Haemocoel
                                           d) Two chambered heart
        c) Muscular chambered heart
        Substances such as H1, K1, NH41, creatinine and organic acids move into the filtrate from the
        peritubular capillaries into the tubular fluidis
        a) Tubular secretion
                                           b) Osmolarity
        c) Countercurrent exchanger
                                          d) Hypothalamus
        Vasa recta is absent or reduced in
        a) Vasa recta
                               b) Cortical nephrons
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	a) Ownithing and and Olemany law filtuation		
F02	c) Ornithine cycle d) Glomerular filtration CO₂ is transported through blood to lungs as		
502.	a. carbonic acid b. oxyhaemoglobin		
	c. carbamino haemoglobin d. carboxy haemoglobin		
503.	The large hole in the temporal bone is the		
505.	a. Exoskeleton b) Endoskeleton c) Brain box d) External auditory meatus		
<i>504</i> .	are considered as "Friends of Farmers".		
	a) Frog b) Earthworms c) Epigeics d) Anecics		
505.	Who is related with "Five Kingdom Classification"?		
	a) R.H.Whittaker b) Carl Woese c) Cavalier-Smith d) None of theabove		
<i>506</i> .	What is the inner layer, supports the vascular endothelium?		
	a) Lymphocytes b) Tunica intima c) Tunica media d) Tunica externa		
507.	What is the mechanism of some of the substances like fructose are absorbed with the help of		
	the carrier ions like Na+ ?		
	a) Diffusion b) Simple diffusion c) Facilitated transport d) Active transport		
508.	The ability to sense stimuli arising within the body regarding position, motion and equilibrium_		
	a) Ampulla b) Depolarization c) Properioception d) Septum pellucidum		
509.	The opening between the left atrium and the left ventricle is guarded by		
	a) Tricuspid valve b) Bicuspid valve c) Semilunar valves d) Trabeculaecorneae		
	c) Semilunar valves d) Trabeculaecorneae		
510.	Whatis a digestive disorder in which the food is not properly digested leading to a feeling		
	of fullness of stomach?		
	a) Indigestion b) Constipation c) Both of these d) None of the above		
511.			
	a) Tight junction b) Adhering junction c) Gap junction d) Elastic junction		
512.	is a South Indian species of earthworm and can reach a maximum up to 1 meter.		
	a) Microchaetus rappi b) Drawida nilamburansis		
	c) Coelom d) Coelomocytes		
513.	The connective tissue covering the whole muscle is the		
F4.4	a) Epimysium b) Perimysium c) Endomysium d) Sarcolemma		
514.	If there are more than one species in the genus it is known as a) Monotypic genus b) Polytypic genus		
	c) Both of these d) None of the above		
515.	Which circulatory system found inarthropods, molluscs, echinoderms, and urochordates?		
	a) Open type b) Closed type c) Both of these d) None of these		
516.	means reflex actions.		
	a) Neurons ´ b) Sensory functions		
	c) Motor functions d) Autonomic functions		
	The head of humerus articulates with the _of the scapula and forms the shoulder		
	joint. Humerus b) Glenoid cavity c) Olecranon process d) Pelvic girdle		
517.	Which is the maximum volume of air that can be moved out during a single breath?		
	a) Vital capacity (VC) b) Inspiratory capacity (IC)		
	c) Expiratory capacity (EC) d) Total Lung Capacity (TLC)		
518.	Theis auto functioning and self governed		
	a) Cranial nerves b) Spinal nerves		
= 4 -	c) Somatic neural system d) Autonomic neural system		
519.	Which type of heart is in fishes?		
	a) Haemocoel b) Closed circulatory system c) Muscular chambered heart d) Two chambered heart		
520.	c) Muscular chambered heart d) Two chambered heart It is the only one bone without any joint.		
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	a) Hyoid bone b) Foramen magnum c) Atlas d) Sternum
521.	Which does include urea, amino acids, glucose, fats and vitamins?
	a) Organic constituents b) Inorganic constituents c) Both of these d) None of the above
522.	The group of classes with similar distinctive characteristics constitute a.
	a) Order b) Class c) Phylum d) Kingdom
523.	lie entirely within the CNS between the afferent and efferent neurons.
	a) Neuroglia b) Afferent neurons
	c) Efferent neurons d) Interneurons
524.	Regulation of the visceral organs is
	a) Trigeminal nerve b) Trochlear nerve c) Vagus d) Hypoglossal
525.	Find odd one out - Bilateral symmetry.
	a) Exhibitscephalisation
	b) Sensory and brain structures are concentrated
	c) Animals which have two similar halves on either side of the central plane
	d) Symmetry is found in comb jellyfish
526.	hat is the name of sphincter used to prevent regurgitation of food between stomach and
	duodenum?
	a) Sphincter muscle b) Cardiac sphincter
F27	c) Pyloric sphincter d) All of theabove
527.	What does lead while oxygen level decreasing in the blood?
5 20	a) Emaciation b) Vomiting c) Giddiness d) Suffocation What is the characteristic feature of respiratory surface?
528.	a) Should be in direct contact with the environment
	b) Should be permeable to respiratory gases
	b) should be permeable to respiratory gases
	c) Both of these
	d) None of the above
529.	Which secrete substances such as heparin, serotonin and histamines?
	a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
530.	Which of these functions could or could notbe carried out by a red blood cell? Briefly justify
	your answer.
	a) Protein synthesis b) Cell division c) Lipid synthesis d) Active transport
531.	Which of the following is an egg laying mammal?
	a) Delphinus b) Macropus c) Ornithorhynchus d) Equus
532.	Which protein is converted to its active form called thrombin in the presence of calcium and
	vitamin K?
	a) Rh1 b) Rh2 c) Erythroblastosisfoetalis d) Prothrombin
533.	primarily contain collagen fibres in rows.
	a) Reticular connective tissue
	b) Dense connective tissues
	c) Dense regular connective tissues d) Dense irregular connective tissues
534.	Most of the in vertebrate embryos are replaced by bones in adults.
JJ7.	a) Elastic connective tissue b) Specialised connective tissues
	c) Cartilages d) Bones
535.	When 1500 mL air is in the lungs, it is called
555.	a. vital capacity b. tidal volume
	c. residual volume d. inspiratory reserve volume
536.	Which is the character included in class Aves?
	a) The presence of feathers and the ability to fly except for flightless birds
	b) Forelimbs are modified intowings
	c) Skin is dry and devoid of glands except the oil gland or preen gland
	d) All of the above
537.	What does lead to redness and bleeding of the gums and to bad smell?
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	a) Tanton b) Calculus a) Planus d) Cincipitis
538.	a) Tartar b) Calculus c) Plaque d) Gingivitis Name the duct of parotid gland.
556.	a) Sphincter of boydon b) Sphincter of oddi
	c) Stensons duct d) Succusentericus
539.	Each eye of Cockroach is formed of about 2000 simple eyes called the .
	a) Ommatidia b) Mosaic vision c) Malpighian tubules d) Uricotelic
540.	are found in deeper layers of the soil.
	a) Endogeics b) Lampito mauritii c) Porphyrin d) Metameres
541.	How is the diffusion membrane of alveolus is made up of?
	a) The thin squamous epithelial cells of the alveoli
	b) The endothelium of the alveolar capillaries
	c) The basement substance
- 40	d) All of the above
542.	differ from bacteria in cell wall composition and differs from bacteria and
	eukaryotes in membrane composition and rRNA types. a) Archaea b) Prokarya c) Eukarya d) All of these
543.	The controls the conditioned reflex.
J 4 J.	a) Unconditional reflex b) Conditioned reflex
	c) Pavlov d) Cerebral cortex
544.	tissue is used tomovement.
	a) Epithelial tissue b) Connective tissue
	c) Muscle tissue d) Nervous tissue
545.	Life threatening soft tissue tumour of head, neck and urinogenital tract
	a) Stickler syndrome b) Rhabdomyosarcoma
	c) Rheumatoid arthritis d) Sjogrens syndrome
546.	At the junction of the sclera and the cor-nea, is a channel called
510.	a) Retina b) Canal of schlemm c) Ciliary muscle d)Accommodation.
547.	Larval stage of frog is .
	a) Mesovarium b) Testis c) Ovisacs d) Tadpole
548.	is used as a foliar spray and helps to induce plant growth.
	a) Vermitech b) Vermiculture c) Vermicomposting d) Vermiwash
549.	Which is the character not included in class Mammalia?
	a) Their skin is glandular in nature, consisting of sweat glands, scent glands and
	sebaceous glands. b) Respiration is by compact, elastic, spongy lungs that are continuous with air sacs to
	supplement respiration
	c) Exoskeleton includes horny epidermal horns, spines, scales, claws, nails, hooves and
	bony dermal plates
	d) Teeth are thecodont, heterodont and diphyodont
550.	Skeletal elements are located inside the organisms with muscles outside
	a) Exoskeleton b) Endoskeleton c) Brain box d) External auditory meatus
55	51. <u>w</u> hose cell body is in the brain or spinal cord.
	a) Preganglionic neuron b) Autonomic ganglion
	c) Postganglionic neuron d) Exteroceptors
552.	The is the part of the peripheral neu-ral systemassociated with the voluntary
	control of body movements.
	a) Cranial nerves b) Spinal nerves c) Sometic neural system d) Autonomic neural system
553.	c) Somatic neural system d) Autonomic neural systemcavity or depression especially in the bone.
<i>55</i> 5.	
	a) Acinus b) Collagen c) Lacunae d) Macrophages YANAR., M.SC., B.ED., (LECTURER IN ZOOLOGY), PRESIDENCY HR. SEC. SCHOOL

a) Capillaries b) Veins c) Coronary artery because of low pressure? a) Capillaries b) Veins c) Coronary artery d) Open circulatorysystem d) Capillaries d) Veins c) Coronary artery d) Open circulatorysystem d) Apnoea b) Book gills c) Book lungs d) COLD d) Apnoea b) Book gills c) Book lungs d) COLD d) Apnoea b) Book gills c) Book lungs d) COLD d) Apnoea b) Book gills c) Book lungs d) COLD d) Apnoea b) Book gills c) Book lungs d) COLD d) Apnoea b) Book gills c) Apnoea dexpelling environment? a) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles d) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles d) The formation of list he first step towards evolution of body plan in sponges. a) Calls b) tissues c) organs d) organ systems d) Cells b) tissues c) organs d) organ systems d) Hind limbs b) Vocal sacs c) Aluptial pad d) Muscular sticky tongue while in soil areureoteles and when in water are ammonoteles. a) Ureoteles b) Earthworms c) Primitive kidneys d) Kidneys d) The superficial region of the cerebrum is called a) Cerebrum b) Cerebral cortex c) Corpus callosum d) Association areas d) Which are also involved in inflammatory reactions? a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils d) Mame the bilepigments. a) Billrubin b) Biliverdin c) Both of these d) None of the above Actin has polyopetide subunit called A) Sarcomere b) Actin c) Meromyosin d) G-actin d) Specialized connective tissues b) Areolar connective tissue c) Tissue fluid d) Adipose tissue c) Tissue fluid d) Adipose tissue c) Tissue fluid d) Adipose tissue c) Specialized connective tissues b) Glandular epithelium c) Goblet cells or columnar, but unequal in size. d) Specialized connective tissues b) Areolar connective tissue c) Antennae, compound eyes, maxillary palps, and icrci b) Antennae, compound eyes, maxillary palps and icrci b) Antennae, compound eyes, maxillary palps and icrci b) Antennae, own palma settlem and Peter Safar c) CPR d) Defibrillation d) Antennae, eyes, maxillary palps, and icrci d) Arennae, own affici		
a) Apnoea b) Book gills c) Book lungs d) COLD 556. Which does help in collecting nitrogenous waste and expelling environment? a) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles 557. Which is the pressure in the auricles increases than that of the ventricular pressure? a) Tachycardia b) Bradycardia c)Ventricular diastole d) Atrial systole 557. The formation of	554.	Which are blood samples usually taken rather than artery because of low pressure?
a) Apnoea b) Book gills c) Book lungs d) COLD 56. Which does help in collecting nitrogenous waste and expelling environment? a) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles 77. Which is the pressure in the auricles increases than that of the ventricular pressure? a) Tachycardia b) Bradycardia c) Ventricular diastole d) Atrial systole 78. The formation of is the first step towards evolution of body plan in sponges. a) cells b) tissues c) organs d) organ systems 78. On the floor of the buccal cavity lies a large		a) Capillaries b) Veins c) Coronary artery d) Open circulatory system
 Which does help in collecting nitrogenous waste and expelling environment? a) Excretory system b) Mammonia c) Ammonoteles d) Uricoteles Which is the pressure in the auricles increases than that of the ventricular pressure? a) Tachycardia b) Bradycardia c) Bromation ofis the first step towards evolution of body plan in sponges. a) cells b) tissues c) organs d) organ systems On the floor of the buccal cavity lies a large, a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky tongue while in soil areureoteles and when in water are ammonoteles. a) Ureoteles b) Earthworms c) Primitive kidneys d) Kidneys The superficial region of the cerebrum is called, a) Cerebrum b) Cerebral cortex c) Corpus callosum d) Sociation areas Which are also involved in inflammatory reactions? a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils Mame the bile pigments. a) Biliverdin c) Both of these d) None of the above ACTION ACTION AC	555.	Which does temporary stopping of respiration?
a) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles 557. Which is the pressure in the auricles increases than that of the ventricular pressure? a) Tachycardia b) Bradycardia c) Ventricular diastole d) Atrial systole 358. The formation of is the first step towards evolution of body plan in sponges. a) cells b) tissues c) organs d) organ systems 359. On the floor of the buccal cavity lies a large a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky tongue while in soil areureoteles and when in water are ammonoteles. a) Ureoteles b) Earthworms c) Primitive kidneys d) Kidneys 361. The superficial region of the cerebrum is called a) Cerebrum b) Cerebral cortex c) Corpus callosum d) Association areas 362. Which are also involved in inflammatory reactions? a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils 363. Name the bile pigments. a) Bilirubin b) Biliverdin c) Both of these d) None of the above 364. Actin has polypeptide subunit called A) Sarcomere b) Actin c) Meromyosin d) G-actin 3655. Which is the total volume of air which the lungs can accommodate after forced inspiration? a) Vital capacity (VC) b) Inspiratory capacity (IC) c) Expiratory capacity (EC) d) Total Lung Capacity (TLC) 1. Located beneath theskin. a) Specialized connective tissues b) Areolar connective tissue c) Tissue fluid d) Adipose tissue cells are columnar, but unequal in size. a) Pseudo-stratified epithelial b) Glandular epithelium c) Goblet cells are columnar, but unequal in size. a) Pseudo-stratified epithelial b) Glandular epithelium d) Antennae, compound eyes, maxillary palps c) Antennae, own maxillary alps c) Antennae, own smaxillary palps c) Antennae, own smaxillary palps d) Artennae eyes maxillary alps are dense regular, dense irregular and elastic. a) Connective tissues b) Fibres c) Loose connective tissues b) Fibres c) Loose c		a) Apnoea b) Book gills c) Book lungs d) COLD
 557. Which is the pressure in the auricles increases than that of the ventricular pressure? a) Tachycardia b) Bradycardia c) Ventricular diasotole d) Atrial systole 558. The formation of is the first step towards evolution of body plan in sponges. a) cells b) tissues c) organs d) organ systems 59. On the floor of the buccal cavity lies a large a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky tongue 60. while in soil areureoteles and when in water are ammonoteles. a) Ureoteles b) Earthworms c) Primitive kidneys d) Kidneys 561. The superficial region of the cerebrum is called a) Cerebrum b) Cerebral cortex c) Corpus callosum d) Association areas 562. Which are also involved in inflammatory reactions? a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils 563. Name the bile pigments. a) Bilirubin b) Biliverdin c) Both of these d) None of theabove 564. Actin has polypeptide subunit called A) Sarcomere b) Actin c) Meromyosin d) G-actin 565. Which is the total volume of air which the lungs can accommodate after forced inspiration? a) Vital capacity (VC) b) Inspiratory capacity (IC) c) Expiratory capacity (EC) c) Expiratory capacity (EC) c) (Expiratory capacity (EC) d) Total Lung Capacity (TC) c) (Expiratory capacity (EC) c) (Espiratory capacity (EC) c) (Espiratory capacity (EC) c) (Espiratory capacity (EC) d) Adipose tissue c) Tissue fluid d) Adipose tissue c) Tissue fluid c) (Boblet cells d) Glandular epithelium c) Goblet cells d) Glandular epithelium d) Antennae, compound eyes, maxillary palps, anal cerci b) Antennae, compound eyes, maxillary palps c) Antennae, compound eyes, maxillary palps c) Antennae, eyes, maxillary palps c) Antennae, compound eyes, maxillary palps c) Antennae eyes, maxillary palps d) Antennae, compound eyes, maxillary palps c) Antennae eyes, maxillary palps d) Antennae, eyes, maxillary palps d) Antennae commandida, maxillary palps d) Antennae commandida donor of the blood was first described by (1628) a) Which of the following are the sense organs of Cockro	556 .	Which does help in collecting nitrogenous waste and expelling environment?
a) Tachycardia b) Bradycardia c) Ventricular diastole d) Atrial systole The formation of is the first step towards evolution of body plan in sponges. a) cells b) tissues c) organs d) organ systems 59. On the floor of the buccal cavity lies a large a) Hind limbs b) Vacal sacs c) Nuptial pad d) Muscular sticky tongue 50		a) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles
358. The formation ofis the first step towards evolution of body plan in sponges. a) cells b) tissues c) organs d) organ systems 359. On the floor of the buccal cavity lies a large a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky tongue while in soil areureoteles and when in water are ammonateles. a) Ureoteles b) Earthworms c) Primitive kidneys d) Kidneys 561. The superficial region of the cerebrum is called a) Cerebrum b) Cerebral cortex c) Corpus callosum d) Association areas 562. Which are also involved in inflammatory reactions? a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils 563. Name the bile pigments. a) Bilirubin b) Biliverdin c) Both of these d) None of the above 564. Actin has polypeptide subunit called A) Sarcomere b) Actin c) Meromyosin d) G-actin 565. Which is the total volume of air which the lungs can accommodate after forced inspiration? a) Vital capacity (VC) b) Inspiratory capacity (IC) c) Expiratory capacity (EC) d) Total Lung Capacity (TLC) 566located beneath the skin. a) Specialized connective tissues b) Areolar connective tissue c) Tissue fluid d) Adipose tissue d) Glandular epithelium c) Goblet cells d) Antennae, compound eyes, maxillary palps, and cerci b) Antennae, compound eyes, maxillary palps, and cerci b) Antennae, compound eyes, maxillary palps, sernum d) Antennae, compound eyes, maxillary palps, sernum d) Antennae, eyes, maxillary palps, sernum d) Antennae, eyes, maxillary palps, sernum d) Antennae, compound eyes, maxillary palps, and terci b) Antennae, compound eyes, maxillary palps, sernum d) Antennae, compound eyes, maxillary palps, sernum d) Antennae, ommatidia, maxillary palps, sernum d) Antennae, ommatidia, max	557.	Which is the pressure in the auricles increases than that of the ventricular pressure?
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on the floor of the buccal cavity lies a large	558.	The formation ofis the first step towards evolution of body plan in sponges.
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	A) Hypothalamus		
<i>57</i> 5.	c) Mammillary bodies Breathing is controlled by	d) Satiety centre	
	a. cerebrum b. medullo	a oblongata c.cereb	
576.	What is the name of the prod a) Ingestion b) Digestic	cess of digestion involves on c) Absorption	
<i>577</i> .	Skeletal elements are locat a) Exoskeleton b) Endoskele		
<i>578</i> .		180l c) Glomerular	r pressure d)Ultrafiltration
<i>57</i> 9.	The meganephridium has an i a) Nephrostome b) Chl	internal funnel like openi loragogen cells	ning called the
580.	The cockroachcan cause	asthma to sensitive peop	
581.	The end product of Ornithine a. carbon dioxide b. uri	e cycle is	
582.	Whichis the amount of air insa) Tidal Volume (TV)		ach normal breath? ratory Reserve Volume (IRV)
583.	c) Expiratory Reserve Volume In some genus there is only of a) Monotypic genus	one species which is calle b) Polytypic genus	
584.	c) Both of these The body of afrog isto h a) Chordata b) Streaml	help in swimming. lined c) Dark green	n d) Pale
585.	Which character is not included by Francisco		
	a) Excretory organs are abserb) The nervous system and sec) The circulatory system isold) Development is indirect w	ensory organs are poorly o pen type without heart a	
586.		kternal nostrils up to the t Respiratory zone	terminal bronchioles constitute the_
587.	the gastric juice with acid mo in a) LES b) COLD	ay flow back into the oeso c) GERD d) MALT	during the churning action of the stomach sophagus and cause heart burn, resulting
588.	a) Adipocytes b) Adipo	· ·	n fat d) White fat
589.		apods to live both in aquat yonic membranes like am 1gh, moist, pigmented and	atic as well as terrestrial habitats Lay nnion, allantois, chorion and yolk sac
590	is a polymer of monom a) Andrew F. Huxle		
	c) Contraction d) Acetylecholine		
592.	There are 31 pairs of		
	a) Cranial nerves	b) Spinal nerves	
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	c) Somatic neural system d) Autonomic neural system
593.	Earthworms are also used as bait in
E0.4	a) Fishing b) Cockroach c) Cursorial d) Vectors Who is related with "Three Demain Classification"?
594.	Who is related with "Three Domain Classification"? a) R.H.Whittaker b) Carl Woese c) Cavalier-Smith d) All of the above
595.	a) R.H.Whittaker b) Carl Woese c) Cavalier-Smith d) All of the above In which AV valves are open while the semi lunar valves are closed?
393.	a) Tachycardia b) Bradycardia c) Ventricular diastole d) Atrial systole
596.	Which-is-the-inflammation-of-the-lungs-dueto infection caused by bacteria?
370.	a) Asthma b) Emphysema c) Pneumonia d) Tuberculosis
<i>597</i> .	Theis devoid of teeth.
377.	a) Maxillary teeth b) Vomerine teeth c) Lower jaw d) Oesophagus
598.	The nymph grows by or ecdysis about 13 times to reach the adult form.
575.	a) Moulting b) Allergen c) Diploptera punctata d) Super food
599.	is called the father of taxonomy (classical).
• • • • • • • • • • • • • • • • • • • •	
	a) Carolus Linnaeus b) Aristotle c) Augustin Pyramus de Candole d) Charles Darwin
600.	Theis made up of seven bones called tarsals.
	a) Ischium b) Acetabulum c) Tarsus d) Metatarsus
601.	Which sphincter which guard the opening of the ampulla of vater into the duodenum?
	a) Sphincter of boydon b) Sphincter of oddi
	c) Stensons duct d) Succusentericus
602.	Which type of heart is in all vertebrates?
	a) Haemocoel b) Closed circulatory system
	c) Muscular chambered heart d) Two chambered heart
603.	If the species name is framed after any persons name the name of the species shall
	end with
	a) i b) ii c) ae d) All of theabove
604.	are small light pressure receptors found just beneath the epidermis.
	a) Tactile merkel disc b) Hair follicle receptors c) Meissners corpuscles d) Pacinian corpuscles
605.	The myocardium of the ventricle is thrown into irregular muscular ridges called
	a) Tricuspid valve b) Bicuspid valve
	c) Semilunar valves d) Trabeculaecorneae
606.	The increased pressure generates pressure waves in the fluid of
	a) Tectorial membrane b) 20 times
	c) Perilymph d) Conductive deafness
607.	Theis a sensory ridge located on the top of the Basilar membrane.
	a) Perilymph b) Basilar membrane c) Organ of corti d) Stereocilia
608.	Almostof animalsare invertebrates or animals without backbone.
	a) 96 percent b) 97 percent c) 98 percent d) 99 percent
609.	Whichhas haemolymph as the circulating fluid and is pumped by the heart, which flows through
	blood vessels into the sinuses?
	a) Capillaries b) Veins c) Coronary artery d) Open circulatory system
610.	<i>y</i>
	a) Gustatory receptor b) Papillae c) Gustatory hairs d) Skin
611.	
	a) Ruffini endings b) Krause end bulbs c) Melanocytes d) Vitiligo
612.	make the muscles stronger.
	a) Strength exercises b) Myasthenia gravis
MD 437	c) Metaphysis d) Muscle pull
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613.	Which is carried in the RBCs as carbaminohaemoglobin? a) Dissolved in plasma b) Bound to haemoglobin
	c) Both of these d) None of the above
614.	The serves the upper limb.
	a) Spinal cord b) Caudaequina
	c) Cervical enlargement d) Lumbar enlargement
615.	Which character is not included in Sponges?
	a) The water transport system is helpful in food gathering, circulation, respiration and removal
	ofwaste
	b) Choanocytesor collar cells are special flagellated cells lining the spongocoel and the canals
	canais c) The body is supported by a skeleton made up of calcareous and siliceous spicules or spongin
	or both
	d) They have a central vascular cavity or coelenteron with a single opening called mouth
	or hypostome
616.	What is chyme?
	 a) The process of conversion of fat into small droplets. The process of conversion of micelles substances of glycerol into fatty droplet.
	b) The process of preparation of incompletely digested acidic food through gastric juice.
	c) The process of preparation of completely digested liquid food in midgut.
617.	Earthworms are hermaphrodites or
440	a) Nephrostome b) Chloragogen cells c) Monoecious d) Protandrous
618.	Which is the part of the brain tissue that is supplied by this damaged artery dies due to lack of
	oxygen? a) Cerebral infarction b) Angina pectoris c) Atheroma d) Chest pain
619.	Which are characterised by the absence of granules in the cytoplasm?
017.	a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
620.	The term species was coined by
020.	a) Aristotle b) John Ray c) Carolus Linnaeus d) Charles Darwin
621.	Periplaneta is a animal.
	a) Fishing b) Cockroach c) Cursorial d) Vectors
622 .	Which blood is pumped by the heart and flows through blood vessels?
	a) Haemocoel b) Closed circulatory system
	c) Muscular chambered heart d) Two chambered heart
623.	Some nephrons have very long loop of Henle that run deep into the medulla and are called_
	. a) Distal convoluted tubula b) Callacting dust
	a) Distal convoluted tubule b) Collecting duct c) Juxta medullary nephrons d) Glomerulus
624.	Which is the space between the membranes?
024.	a) Epicardium b) Myocardium c) Endocardium d) Pericardial space
625.	Which does take sensory impulses to the Central Neural system?
020.	a) Neuroglia b) Afferent neurons
	c) Efferent neurons d) Interneurons
626 .	Fibres and fibroblasts are compactly packed in the
	a) Reticular connective tissue
	b) Dense connective tissues
	c) Dense regular connective tissues
	d) Dense irregular connective tissues
627 .	is a firm, elastic connective tissue produced by the cells,called chondro-cytes.
	a) Red muscle fibres b) Glycolytic fibres
	c) White muscle fibres d) Cartilage
628.	Inis the length of the muscle changes but the tension remains con-stant.
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	a) Isotonic contraction b) Isometric contraction	
c) Myosin d) Oxidative fibres		
629.	What is meant by Deuterostomia?	
	a) They have a true coelom called enterocoel, formed from the archenteron.	
	b) The embryonic blastopore develops into mouth	
	c) This division includes threesubdivisions	
	d) Acoelomata, pseudocoelomata and schizocoelomata	
630.	Which is the character not included in class Mammalia?	
	a) External ears or pinnae are present	
	b) The heart is four chambered and possess a left systematic arch	
	c) Endoskeleton is fully ossified (bony) and the long bones are hollow with air cavities	
	d) Mature RBCs are circular, biconcave and non nucleated	
631.	are found in upper layers of the soil.	
	a) Frog b) Earthworms c) Epigeics d) Anecics	
632.	Which character is not included in Mollusca?	
	a) The digestive system is complete with mouth on ventral side and anus on the dorsal	
	side Open type of circulatory system is seen except for cephalopods	
	b) Blood contains haemocyanin, a copper containing respiratory pigment	
	c) They are dioecious andoviparous	
633.	with more sensitivity but less resolution.	
	a) Ommatidia b) Mosaic vision c) Malpighian tubules d) Uricotelic	
634.	Which is the presence of air in the pleural cavity which causes collapsing of lungs?	
	a) Hypoxia b) Pneumothorax c) Vocal cords d) Yawning	
635.	Kidneys produce about ofglomerular filtrate in 24 hours.	
	a) Passive process b) 1801 c) Glomerular pressure d) Ultrafiltration	
636.	Common oviduct known as , which opens into the genital chamber.	
	a) Ovarioles b) Vagina <u>c</u>) Ootheca d) Paurometabolus	
<i>637</i> .	The hair cells are embedded in a gelatinous otolithic membrane that contains small	
	calcareous particles called	
	a) Sensory-neural deafness b) Otoliths	
	c) Crista ampullaris d) Chemoreceptors	
<i>6</i> 38.	Which are also called heterophils?	
	a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils	
639.	It occurs due to deficiency of vitamin D and hormonal imbalance	
	a) Rheumatoidarthritis b) Gouty arthritis or gout	
	c) Osteoporosis d) Endurance	
640.	Which are special cells in bone marrow?	
	a) Agranulocytes b) Lymphocyte c) Monocytes d) Megakaryocytes	
6 4 1.	Podocytes are the cells present on the	
	a. Outer wall of Bowmans capsule b. Inner wall of Bowmans capsule	
	d Wall alamandana and hada	
(1)	c. neck of nephron d. Wall glomerular capillaries	
642.	Theare known to play a major role in regeneration, immunity and wound healing.	
	a) Microchaetus rappi b) Drawida nilamburansis	
(1)	c) Coelom d) Coelomocytes The harmone which helps in the maches patient of water in hidray tubulos is	
643.	The hormone which helps in the reabsorption of water in kidney tubules is	
	a. cholecystokinin b. angiotensin II	
	c. antidiuretic hormone d. pancreozymin	
644.	A cockroach can hold its breath for	
	a) Week b) 45 minutes	
<i>(1</i>	c) Double ventral nerve cord d) Sub-oesophageal ganglion Which is associated with the closure of the semilunar valves?	
645.	Which is associated with the closure of the semilunar valves?	

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///	a) Aorta b) Chordate tendineae	c) Lub sound	d)Dub sound
646.	What is the dental formula in man? a) 2033/1023 b) 0033/3133	c) 3142/3143	d) 2123/2123
647.	Make the correct pairs.	,	,
		Column-II	
	· /	i. 1000 to 1100ml	
	\ U	ii. 500 ml	
	(R) Expiratory reserve volume ii (S) Inspiratory reserve volume iv	1. 2500 to 3000 ml	
	(a) P ₂ ii O ₂ iv P ₂ i C ₂ iii (b) P ₂	'. 1100 to 1200111t iii	;
	(a) P - ii , Q - iv , R - i , S - iii (b) P - (c) P - ii , Q - iv , R - iii , S - i (d) P -	iii, Q-ii, K-iv, S-i iii O-iv R-i S-i	ii
6 4 8.	A row of small and pointedis found	on the inner region	of the upper iaw.
0.5.	a) Maxillary teeth b) Vomerine te	eth c) Lower j	aw d) Oesophagus
649.	is the creation of tension in the r		
	a) F-actin		•
	b) Andrew F. Huxley and Rolf Nieders	gerke	
	c) Contraction		
	d) Acetylecholine		
650.	is a chronic neurodegenerative dis	sease.	
	a) Cardiac muscle tissue b) Park		
		ous tissue	
651.	It is a group of closely related species		from a common ancestor.
450	a) Species b) Genus c) Fan		- di i-i-a - 6 th
652.	Which of the following statement con	cerning the somation	caivision of the peripheral neural
	system is incorrect?	uselos	
	a. Its pathways innervate skeletalmeb. Its pathways are usually voluntary		
	c. Some of its pathways are referred		
	d. Its pathways always involve four n		
653.	Which- is- a- thin- elastic- cartilaginou		the glottis and prevents the entry of
	food into the larynx?	, ,	3 , , , , , , , , , , , , , , , , , , ,
	a) Dyspnoea b) Epiglottis c) Haemoglobin	d) Herring-Breuerreflex
65 4 .	Skeletal muscles are attached to the	bones by	
		pectin d. fibri	in
655.	Aldosterone acts at the distal convolute	ed tubule and collect	ing duct resulting in the
	absorption of water through		
	a. Aquaphorins b. spectrins		hloride channels
656 .	What is the breathing rate of healthy l		
	a) 10-16 times/minute b) 12-14 t		
	c) 12-16 times/minute d) 72-80 t	imes/minute	
657.	Which of the following hormones stimu	late the production o	of pancreatic juice and
	bicarbonate?) C = -(-: 1: 1: 1:	
	a) Angiotensin and epinephrine b		
4 F0) Insulin and glucago	ח
658.	Which is the second largest gland in that a) Liver b) Pancreas c) Sple		,
659.	The C- shaped space found inside each		
037.		Septum pellucidum	
	a, Lacerat vericinetes randin D) :	epean pettaeraam	

	c) Aqueduct of Sylvius d) Cerebro spinal fluid
660.	The muscle fibre is surrounded by the
	a) Epimysium b) Perimysium c) Endomysium d) Sarcolemma
661.	The pigment present in the muscle fibre to store oxygen is
//2	a. myoglobin b. troponin c. myosin d. actin
662.	supplies blood to the lungs and skin. a) Systemic trunk b) Pulmo-cutaneous trunk c) Carotid d) Blood
663.	Which is the failure of tissues for any reason to receive an adequate supply of oxygen?
005.	a) Hypoxia b) Pneumothorax c) Vocal cords d) Yawning
664.	Earthwormdivides it into a number of compartments called segments or
	a) Endogeics b) Lampito mauritii c) Porphyrin d) Metameres
665.	are yellow coloured structures attached midgut and hindgut.
	a) Malpighian tubules b) Mushroom shaped gland
	c) Seminal vesicles d) Gonapophyses
666.	Which is recorded the electrical activity of the heart over a period of time using
	electrodes placed on the skin, arms, legs and chest?
//7	a) Electrocardiogram b) Sinu Auricular node c) P wave d) T wave
667.	At the venous end of the capillary bed, the osmotic pressure is a) Greater than the hydrostatic pressure b) Result in net outflow of fluids
	c) Results in net absorption of fluids d) No change occurs.
668.	Which is the character not included in class Mammalia?
	a) Mammals have a large brain when compared to other animals
	b) They show greatest intelligence among all animals
	c) All are homeothermic, sexes are separate and fertilization is internal
	d) Kidneys are mesonephric
669.	Due to the presence of three pairs of walking legs it is also called
470	a) Cervicum b) Hexapoda c) Tarsomeres d) Tegmina
670.	Marine organisms are maintained in protected enviroments. a) Taxonomical keys b) Museums c) Zoological parks d) Marine parks
671.	Reptiles, birds, land snails and insects excrete uric acid crystals, with a minimum loss of water
• • • • • • • • • • • • • • • • • • • •	and are called .
	a) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles
672.	Which does refer to an eroded area of the tissue lining in the stomach or duodenum?
	a) Peptic ulcer b) Appendicitis c) Hiatus hernia d) Diarrhoea
673.	Name the sphincter which guard opening of the bile duct before it joins with the
	pancreatic duct. a) Sphincter of boydon b) Sphincter of oddi
	c) Stensons duct d) Succusentericus
674.	A living organism is differentiated from nonliving structure based on
• • • • • • • • • • • • • • • • • • • •	a) Reproduction b) Growth c) Metabolism d) Movement
<i>67</i> 5.	Which are excretory structures with special cells in the Platyhelminthes?
	a) Flame cells b) Solenocytes c) Nematodes d) Insects
676.	commonly called adipose or fat cells.
	a) Adipocytes b) Adipose tissue c) Brown fat d) White fat
677.	The serves the lower limbs.
V , , .	a) Spinal cord b) Caudaequina
	c) Cervical enlargement d) Lumbar enlargement
<i>678</i> .	Match the following.
	A) Gustatory receptors - i) Sense of smell
	B) Olfactory receptors - ii) Changes in temperature
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	C) Tactile receptors - iii) Detect chemical changes
	D) Chemoreceptors - iv) Sense of taste
	E) Thermoreceptors - v) Sense of touch
	a) A-iv), B-i), C-v), D-iii), E-ii)
	b) A - i), B - ii), C - iii), D - iv), E - v)
	c) A-iv), B-ii), C-iii), D-i), E-v)
	d) A - i), B - iii), C - ii), D - v), E - iv)
679.	Theis a small air-filled cavity in the temporal bone.
a) Cataro	act b) Ceruminous glands c) Middle ear d) Eustachian tube
680.	The bowmans capsule and the glomerulus together constitute the
	a) Medullary pyramids b) Renal columns of Bertini
	c) Renal hilum d) Renal corpuscle
681.	Which one is incorrectlymatched?
	a) Pepsin - stomach b) Renin - liver
	c) Trypsin- intestine d) Ptyalin - mouth
682.	Which of the following best describes the process of gas exchange in the lungs?
	a. Air moves in and out of the alveoli during breathing.
	b. Carbon dioxide diffuses from deoxygenated blood in capillaries into the alveolar air.
	c. Oxygen and carbon dioxide diffuse down their concentration gradients between blood and
	alveolar air.
	d. Oxygen diffuses from alveolar air into deoxygenated blood.
683.	Collar cells of sponges is known as
-h	a) Pinacocytes b) Choanocytes c) Chaoanoflagellates d) All of the
above	Which does facilitate the transport of ions hormones lipids and assist in
684.	Which does facilitate the transport of ions, hormones, lipids and assist in immunefunction?
	a) Albumin b) Globulin c) Prothrombinand Fibrinogen d) All of the above
685.	The nymph resembles the adult and undergoes .
333 .	a) Moulting b) Allergen c) Diploptera punctata d) Super food
686.	What is the opening of the hepato-pancreatic duct into the duodenum?
	a) Malphigians capsule b) Glissons capsule
	c) Cystic duct d) Sphincter of Oddi
<i>687</i> .	Which of the following animals has a true coelom?
	a) Ascaris b) Pheretima c) Sycon d) Taenia solium
688.	Periplaneta has anof circulatory system.
	a) Spiracular muscles b) Spiracles c) Open type d) Haemolymph
689.	This colour of the earthworm is mainly due to the presence ofpigment.
	a) Endogeics b) Lampito mauritii c) Porphyrin d) Metameres
690.	Which lies at the junction between the arterioles and capillaries to regulate the blood supply?
404	a) Arteries b) KiloPascal (KPa) c) Small sphincter d) Anastomoses
691.	The type of movement exhibits by the macrophages are
(02	a. flagellar b. ciliary c. muscular d. amoeboid
692.	Which that flter the fluid from the lymphatic vessels of the skin are highly concentrated in the
	neck, inguinal, axillaries, respiratory and digestive tracts?
402	a) Serum b) Heparin c) Lymph d) Lymph nodes Defects in ADH receptors or inability to secrete ADH leads to a condition called
693.	a) Osmoreceptors b) ADH
	c) Angiotensin Converting Enzyme inhibitors d) Diabetes insipidus
	b) First capillary bed of the nephron is the Distal convoluted tubule b) Collecting duct
	b) Thist capitally bed of the hephilothis the Distal convoluted tubule b) Collecting duct
	c) Juxta medullary nephrons d) Glomerulus
694.	are short, stumpy, and helps to bear the weight of the body.
	a) Nictitating membrane b) Tympanic membranes
	c) Cloacal aperture d) Fore limbs
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695.	The opening of right and left ventricles into the pulmonary artery and aorta are guarded by
	aortic and pulmonary valves and are called
	a) Tricuspid valve b) Bicuspid valve
	c) Semilunar valves d) Trabeculaecorneae
696.	Smooth muscle present in the ciliary body is called the
	a) Retina b) Canal of schlemm c) Ciliary muscle d) Accommodation
697.	forms the floor of the diencephalon.
	a) Hypothalamus b) Infundibulum
	c) Mammillary bodies d) Satiety centre
698.	Which is formed of loose connective tissue containing nerves, blood, lymph vessels and the
	sympathetic nerve fibres that control the secretions of intestinal juice?
	a) Serosa b) Muscularis c) Submucosa d) Mucosa
699.	develops from the mesoderm.
	a) Tight junctions b) Adhering junctions
	c) Gap junctions d) Connective tissue
<i>7</i> 00.	The process of assigning scientific names to animals or taxonomic group is called .
	a) Systematics b) Nomenclature c) Biodiversity d) Classification
701.	Digested food is absorbed by the numerous finger-like folds
	a) Intestine b) Microvilli c) Rectum d) Cloaca
	b) The_is broader than the midgut. Gizzard b) Enteric caecae c) Malphigian tubules d)
700	Hindgut
702.	Which are the thick walls, non-collapsible to withstand high pressure?
700	a) Arteries b) KiloPascal (KPa) c) Small sphincter d) Anastomoses
<i>7</i> 03.	This is due to lack of ATP and accumulation of lactic acid by anaerobic breakdown of
	glucose.
	a) Synovial joints or Diarthroses joints b) Myasthenia gravis
	c) Tetany d) Muscle fatigue
704.	The functional unit of a muscle fibre is
	a. sarcomere b. sarcoplasm c. myosin d. actin
<i>7</i> 05.	Beneficial bacteria is called
70.	a) Probiotic b) Pathogenic c) Cyanobacteria d) All of the above
706.	The secretion of theserves to cement the spermatozoa.
· ·	atogonia b) Ciliary rosettes c) Vasa deferentia d) Prostate gland Which character is not included in Platyholminthes?
707.	Which character is not included in Platyhelminthes?
	a) Mostly endoparasites of animals including human beingsb) Fertilization is external and development is indirect and includes cydippid larva
	c) Hooks and suckers are serve as organs of attachment
	d) Their body is not segmented, but some exhibit pseudosegmentation
<i>708</i> .	Two pairs of seminal funnels called are situated in the same segments as the testes.
700.	a) Spermatogonia b) Ciliary rosettes c) Vasa deferentia d) Prostate
gland	a) spermatogoma b) omary rosettes e) vasa dejeremena a) r rostate
709.	Find odd one out - Mammals.
	a) Hooded Pitohui b) Blue whale c) Monkey d) Elephant
710.	exhibits all the fundamental characteristics of Class Insecta.
	a) Fishing b) Cockroach c) Cursorial d) Vectors
711.	In Metaphire posthuma, the 26th segment has a pair of short conical out growths
	a) Intestinal caecae b) Vermicasts c) Respiratory organs d) Oxygen
712.	have two processes with one axon and one dendrite.
	a) Bipolar neurons b) Unipolar neurons
	c) Intracellular fluid d) Resting membrane Potential

713.	Which is adecreased heart rate?
74.4	a) Tachycardia b) Bradycardia c) Ventricular diastole d) Atrial systole
714.	Vertebrates have complex tubular organs called a) Ureoteles b) Earthworms c) Primitive kidneys d) Kidneys
715.	Erythroblastosisfoetalis is due to the destruction of
	a) Foetal RBCs b) Foetus suffers from atherosclerosis
	c)Foetal WBCs d)Foetus suffers from mianmata
716.	is not contagious.
	a) Ruffini endings b) Krause end bulbs c) Melanocytes d) Vitiligo
717.	examination to discover the cause of death.
740	a) Biopsy b) Autopsy c) Skeletal muscle tissue d) Smooth muscle
718.	are immovable fixed joints in which no movement between the bones.
	a) Lever system b) Motor neuron c) Fibrous joints or Synarthrosos d) Cartilaginous joints or Amphiarthrosos
719.	c) Fibrous joints or Synarthroses d) Cartilaginous joints or Amphiarthroses Which of the following is not present in same rank?
717.	a) Primata b) Orthoptera c) Diptera d) Insecta
<i>7</i> 20.	What does bile salt reduce?
	a) Emulsification of fats b) Digestion of lipids
	c) Surface tension of fat droplets d) All of the above
721 .	A single U-shapedis present at the base of the buccal cavity
	a) Hyoid bone b) Foramen magnum c) Atlas d) Sternum
722 .	Which is a neurotransmitter found throughout the nervous system?
	a) F-actin b) Andrew F. Huxley and Rolf Niedergerke
700	c) Contraction d) Acetylecholine
<i>7</i> 23.	are Areolar, Adipose and Reticular.
	a) Connective tissues b) Fibres c) Loose connective tissues d) Dense connective tissues
724.	Which layer generate the movements of the small intestine?
721.	a) Serosa b) Muscularis c) Submucosa d) Mucosa
<i>7</i> 25.	Which is the largest gland in the digestive system?
	a) Liver b) Pancreas c) Spleen d) Salivary
726 .	is the functional contractile unit of striated muscle.
	a) Myoglobin b) Sarcolemma c) Sarcomere d) Ilium
727 .	Which is the duct of salivary gland?
abova	a) Stensons duct, b) Whartons duct c) Duct of Rivinis d) All of the
above 728.	Which are differentiated in the bone marrow?
720.	a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
<i>7</i> 29.	can be defined as a group of organisms that have similar morphology and
	physiology and can interbreed to produce fertile offsprings
	a) Species b) Genus c) Family d) Order
<i>7</i> 30.	It is a character of Eucoelom?
	a) The body cavity is not fully lined by the mesodermal epithelium, but the mesoderm is
	formed as scattered pouches between the ectoderm and endoderm
	b) It is a fluid-filled cavity that develops within the mesoderm and is lined by mesodermal epithelium
	c) A body cavity is filled with pseudocoelomic fluid
	d) Their body is solid without a perivisceral cavity
<i>7</i> 31.	are surface dwellers.
	a) Frog b) Earthworms c) Epigeics d) Anecics
<i>7</i> 32.	A pair ofconnectives is present around the oesophagus.
	a) Supra-oesophagial ganglion b) Endocrine centre
	c) Sub-oesophageal ganglion d) Circum-oesophageal
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733.	Which substance secrete through Type II cells in alveoli? a) Type I cells b) Type II cells c) Surfactant d) All of the above
734.	The process of producing compost usingearthworms is called a) Vermitech b) Vermiculture c) Vermicomposting d) Vermiwash
735.	Which are excretory structures with special cells in the Amphioxus? a) Flame cells b) Solenocytes c) Nematodes d) Insects
<i>7</i> 36.	Sea anemone belongs tophylum a) Protozoa b) Porifera c) Coelenterata d) Echinodermata
737.	Which is contain in mucus membrane lining the airway? a) Goblet cells b) Glycoprotein c) Epithelial cells d) All of the above
738.	This is based on Electron Microscopy images to study the molecular structures of cell organelles. a) Neo taxonomical tool b) Ethology of taxonomical tool c) e - taxonomic resource d) All of theabove
739.	The openings between the foot processes of the podocytes are called a) Fenestrae b) Simple squamous epithelium c) Podocytes d) Filtration slits
740.	The medulla oblongata passes out through the a) Foramen magnum b) Spinal cord c) Cranial d) Spinal
741.	Which have distinctly bilobed nucleus and the lobes are joined by thin strands? a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
742.	What is the middle layer, composed of smooth muscles and an extra cellular matrix which contains a protein, elastin? a) Lymphocytes b) Tunica intima c) Tunica media d) Tunica externa
743.	Malpighian tubules are the excretory structures in most a) Flame cells b) Solenocytes c) Nematodes d) Insects
744.	What is feeling of nausea? a) Vomiting b) Chewing c) Biting d) Swallowing
745.	are the main excretory organs of cockroach. a) Ommatidia b) Mosaic vision c) Malpighian tubules d) Uricotelic
746.	Actin has polypeptide subunit called a) F-actin b) Andrew F. Huxley and Rolf Niedergerke c) Contraction d) Acetylecholine
747.	It is used to analyse difference in homologous DNA sequences that can be detected by the presence of fragments of different lengths after digestion of the DNA samples. a) Restriction Fragment Length Polymorphisms (RFLP) b) Polymerase Chain Reaction (PCR) c) Both of these d) None of the above
748.	Which character is not included in Cnidarians? a) Nutrition is holozoic and intracellular b) Digestion is both extracellular and intracellular c) The nervous system is primitive and is formed of diffused nerve net
<i>74</i> 9.	d) Corals have a skeleton made up of calcium carbonate Skeletal muscle is attached to the bone by a bundle of collagen fibres known as . a) Massadarm (b) Muscutes (c) Tandon (d) Fassicle
<i>7</i> 50.	a) Mesoderm b) Myocytes c) Tendon d) Fascicle In females, the 7th sternum isshaped. a) Metathorax b) Tergum c) Sternum d) Boat
<i>7</i> 51.	is muscle cell membrane capable of propagating action potentials. a) Myoglobin b) Sarcolemma c) Sarcomere d) Ilium
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752 .	or water channels are formed by specific plasma membrane proteins in the tubular cells.
	a) Aquaporins b) Bowmans capsule hydrostatic pressure c) Glomerular capillary pressure d) Glomerulus
	a) Glomeratus
753 .	Which are of two types, lymphocytes and monocytes? a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
754 .	The last segment of the leg - tarsus has five movable joints or a) Cervicum b) Hexapoda c) Tarsomeres d) Tegmina
<i>7</i> 55.	Which is characterized by narrowing and inflammation-of-bronchi?
<i>7</i> 56.	a) Asthma b) Emphysema c) Pneumonia d) Tuberculosis Which character is not included in Mollusca?
	a) Terrestrial or aquatic and exhibit organ system level of body organisation.
	b) Bilaterally symmetrical (except univalves), triploblastic and coelomate
	c) Body is covered by a calcareous shell and is unsegmented with a distinct head, muscular footand a visceral hump or visceral mass
	d) The adults are radially symmetrical but the larvae are bilaterally symmetrical
<i>757</i> .	Which of the following is not involved in blood clotting?
737.	a) Fibrin b) Calcium c) Platelets d) Bilirubin
<i>7</i> 58.	All living animals belonging to various phyla are included in the
	a) Order b) Class c) Phylum d) Kingdom
<i>7</i> 59.	The adipose tissue which contains abundant mitochondria is called
	a) Adipocytes b) Adipose tissue c) Brown fat d) White fat
<i>760</i> .	is the seat ofintelligence.
	a) Cerebrum b) Cerebral cortex c) Corpus callosum d) Association
areas	
761.	is a flat bone on the mid ventral line of the thorax
	a) Hyoid bone b) Foramen magnum c) Atlas d) Sternum
762 .	are used to treat high blood pressure.
	a) Osmoreceptors b) ADH c) Angiotensin Converting Enzyme inhibitors d) Diabetes insipidus
<i>7</i> 63.	Which of the following combinations are not matched?
705.	Column I Column II
	a) Bilirubin and biliverdin (i) intestinal juice
	b) Hydrolysis of starch (ii) Amylases
	c) Digestion of fat (iii) Lipases
	d) Salivary gland (iv) Parotid
76 4 .	is associated only with the axon.
	a) Myelin sheath b) Synaptic knob
	c) Neuro-muscular junction d) Multipolar neurons
<i>7</i> 65.	Sensory layer of eye is
7//	a) Retina b) Canal of schlemm c) Ciliary muscle d) Accommodation
766.	Theat the end of the growth phase - II taking 15 - 17 days to complete. a) Juveniles b) Non-clitellate c) Clitellate d) 60 days
<i>767</i> .	Where does maximum absorption take place?
707.	a) Stomach b) Duodenum c) Small intestine d) Large intestine
<i>768</i> .	control involuntary functions of visceral organs.
700.	a) Autonomic Nervous System b) Brain
	c) Prosencephalon d) Telencephalon
<i>7</i> 69.	defect in the synthesis of collagen in the joints, heart valves.
	a) Bone b) Lacunae c) Blood d) Ehlers -Danlos syndrome
<i>77</i> 0.	is sensitive,red, to long wavelength close to 560 nm.
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771.	 a) Erythropsin b) Chloropsin c) Presbyopia d) Astigmatism The neural system comprises of highly specialized cells called a) Neurons b) Sensory functions
772.	c) Motor functions d) Autonomic functionsat the base of the eyelashes are called ciliary glands a) Interoceptors b) Proprioceptors c) Sebaceous glands d) Lacrymal glands
<i>77</i> 3.	Which is the character included in class Aves?
	a) They are homeothermic.
	b) Migration and parental care is well marked.
	c) Urinary bladder is absent d) All of the above
774.	Which is made of special type of muscle in human heart?
	ond de viessens b) Cardiac muscle c) Papillary muscles d)300g
775.	Knee joint is an example of
	a. saddle joint b. hinge joint c. pivot joint d. gliding joint
<i>77</i> 6.	How is the wall of the stomach lined by gastric glands?
	a) Chief cells b) Peptic cells c) Zymogen cells d) All of the above
777.	is an inborn reflex for an uncondi-tioned stimulus.
	a) Unconditional reflex b) Conditioned reflex c) Pavlov d) Cerebral cortex
<i>77</i> 8.	c) Pavlov d) Cerebral cortex Which character is not included in Platyhelminthes?
770.	a) Development is indirect and includes a free swimming ciliated planula larva
	b) They have a dorsoventrally flattened body and hence called flatworms.
	c) Bilaterally symmetrical, triploblastic, acoelomate with organ system organisation
	d) They show moderate cephalization and unidirectional movement
<i>77</i> 9.	The nutritive fluid is deposited in theproduced by the gland cells of the clitellum.
700	a) Spermatophores b) Cocoons c) 2 - 3 weeks d) Direct
780.	Which character is not included in Annelida? a) The circulatory system is of closed type with hemoglobin and chlorocruorin
	b) Nervous system consists of paired ganglion connected
	c) Shed off periodically by a process called moulting or ecdysis
	d) They reproduce sexually
781.	They are capable of synthesizing their food without sunlight and oxygen by utilizing
	hydrogen sulphide and other chemicals from the volcanic vents.
700	a) Archaea b) Bacteria c) Eukarya d) All of these
<i>7</i> 82.	Cockroach excretes uric acid, so it is a) Ommatidia b) Mosaic vision c) Malpighian tubules d) Uricotelic
<i>7</i> 83.	fibres are best suited for rapid, in-tense actions, such as short sprint at max-
705.	imum speed.
	a) Slow - oxidative fibres b) Fast - oxidative fibres
	c) Fast - glycolytic fibres d) Hydrostatic skeleton
<i>784</i> .	cover the dry surface of the skin, the moist surface of buccal cavity.
	a) Exocrine glands b) Endocrine glands
	c) Compound epithelium d) Keratinized squamous epithelium type
<i>7</i> 85.	The undigested solid waste passes out through the a) Intestine b) Microvilli c) Rectum d) Cloaca
<i>7</i> 86.	a) Intestine b) Microvilli c) Rectum d) Cloaca Malpighian tubules remove excretory products from
700.	a. mouth b. oesophagus c. haemolymph d. alimentary canal.
<i>787</i> .	A pair ofis found on either side of the crop in the thorax.
	a) Salivary glands b) Trachea c) Stigmata d) Tracheoles
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788.	is made of more than one layer of cells. a) Exocrine glands b) Endocrine glands c) Compound epithelium d) Keratinized squamous epithelium type
<i>7</i> 89.	are slightly movable joints in which the joint surfaces are separated by a cartilage.
790 .	a) Lever system b) Motor neuron c) Fibrous joints or Synarthroses d) Cartilaginous joints or Amphiarthroses Animal requiring minimum amount of water to produce urine are
	a. ureotelic b. ammonotelic C. uricotelic d. chemotelic
791.	Which is the character not included in class Aves? a) Continuous with air sacs to supplement respiration b) In males, the testes are paired but in females, only the left ovary is well developed while the right ovary is atrophied c) Contains oviparous, fertilization is internal d) Presence of mammary glands
792.	Which is an anticoagulant produced in small quantities by mast cells of connective tissue which prevents coagulation in small blood vessels? a) Serum b) Heparin c) Lymph d) Lymph nodes
<i>7</i> 93.	The light I-bands of myofibril is called a) Isotropic bands b) H-Zone c) M-line d) Z-disc
794.	Presence of gills in the tadpole of frog indicates that a) fishes were amphibious in the past
	b) fishes involved from frog -like ancestors c) frogs will have gills in future d) frogs evolved from gilledancestor
<i>7</i> 95.	One or two interneurons may serve to transmit the impulses. a) Sensory Receptor b) Sensory Neuron c) Interneurons d) Motor Neuron
<i>7</i> 96.	is closely attached to skeletal bones.
797.	 a) Biopsy b) Autopsy c) Skeletal muscle tissue d) Smooth muscle Thecommunicates to the exterior through the dorsal pores. a) Dorsal pores b) Coelomic fluid c) Female genital aperture d) Male genital apertures
798.	Which is regulating homeostatic mechanism? a) Cardio vascular system maintains blood flow c) Both of these b) Perfusion, to the heart and brain d) None of the above
799.	The non-nervous special cellscalled a) Neuroglia b) Afferent neurons c) Efferent neurons d) Interneurons
800.	Thehas no valves. a) Lampito mauritii b) Paired valves c) Ventral vessel d) Lateral hearts
801.	Asymmetrical structures called phallomeres orwhich help incopulation. a) Malpighian tubules b) Mushroom shaped gland c) Seminal vesicles d) Gonapophyses
802.	The Kingdoms defined by him were Monera, Protista, Fungi, Plantae, and Animalia. a) R.H.Whittaker b) Carl Woese c) Both of these d) None of the above
803.	The word taxonomy was coined by a) Carolus Linnaeus b) Aristotle
804.	c) Augustin Pyramus de Candole d) Charles Darwin Animals that excrete most of its nitrogen in the form of ammonia are called a) Excretory system b) Ammonia c) Ammonoteles d) Uricoteles
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805.	is a respone to a stimulus that has been acquired by learning. a) Unconditional reflex b) Conditioned reflex
	c) Pavlov d) Cerebral cortex
806.	The parts starting from the alveoli and the ducts constitute the
	a) Conducting zone b) Respiratory zone
207	c) Both of these d) None of the above
807.	Find odd one out - Asymmetrical.
	a) They do not displaysymmetry
	b) Any plane passing through the central axis of the body divides an organism into two identical parts
	c) Such animals lack a definite body plan or are irregular shaped
	d) Any plane passing through the centre of the body does not divide them into two equal
	halves
808.	Synovial fluid is foundin
000.	
	a. Ventricles of the brain b. Spinal cord c. immovable joint d. freely movable joints.
000	
809.	How is respiration found in insects?
040	a) Moist skin b) Tracheal tubes c) Gills d) Vascularized lungs
810.	Which is circular folds in the lumen of ileum?
044	a) Taeniae coli b) Valves of kerkring c) Whartons duct d) succusentericus
811.	degenerative disorder of the nervous system.
	a) Cardiac muscle tissue b) Parkinsons disease
042	c) Alzheimers disease d) Nervous tissue
812.	Which spherical water soluble droplets offat soluble vitamins are first incorporated?
242	a) Mycelium b) Micelles c) Hyphae d) All of the above
813.	How do bolus passed into the pharynx and then into the oesophagus?
04.4	a) Swallowing b) Deglutition c) Both of these d) None of the above
814.	Which is the most common circulatory disease?
	a) Systemic circulation b) Pulmonary circulation
045	c) Vagus nerve d) Hypertension
815.	is a degenerative disease that damages the joints.
047	a) Atrophy b) Muscle pull c) Arthritis d) Osteoarthritis
816.	found around the pharynx, male urethra and lining of some glandular ducts.
	a) Non keratinizedsquamous epithelium type
	b) Stratified cuboidal epithelium
	c) Stratified columnar epithelium
017	d) Transitional Epithelium Which is the pressure exerted by the fluid in the Bowmans capsule?
817.	· · · · · · · · · · · · · · · · · · ·
	a) Aquaporins b) Bowmans capsule hydrostatic pressure
040	c) Glomerular capillary pressure d) Glomerulus Which type of mysele is an the walls of the ventricles which thicker then the suricles?
818.	Which type of muscle is on the walls of the ventricles which thicker than the auricles?
2000	a) Raymond de viessens b) Cardiac muscle c) Papillary muscles d)
300g	Functioning of facial parts is
819.	Functioning of facial parts is .
000	a) Trigeminal nerve b) Trochlear nerve c) Vagus d) Hypoglossal
820.	diffuses through the skin into the blood of earthworm.
••	a) Intestinal caecae b) Vermicasts c) Respiratory organs d) Oxygen
821.	Which have large round nucleus and small amount of cytoplasm?
	a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
822.	The prokaryotes which have the ability to grow in extreme conditions like volcano vents,
UZZ.	The productions the volculo verits,
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a) Extre 823. 824.	hot springs and polar ice caps, hence are also called. mophiles b) Halophiles c) Thermoacidophiles d) All of the above Match column I with column II and choose the correct option Column - I Column - II (P) Small intestine (i) 23 cm (Q) Large intestine (ii) 4meter (R) Oesophagus (iii) 12.5 cm (S) Pharynx (iv) 1.5 meter a. (P-iv)(Q-ii)(R-i)(S-iii) b. (P-ii)(Q-iv)(R-i)(S-iii) c. (P-i)(Q-iii)(R-ii)(S-iv) d. (P-iii)(Q-i)(R-ii)(S-iv) Which character is not included in Mollusca? a) Digestive system is complete and mouth contains a rasping organ called radula b) The most distinctive feature of the presence of the water vascular system c) The sense organs are tentacles, eyes and ospharidium d) Excretory organs are nephridia
825.	Which is single large artery carrying blood away from the left ventricle?
826.	a) Aorta b) Chordate tendineae c) Lub sound d) Dub sound Fibres that contain numerous mitochon-dria and have a high capacity for oxi-dative phosphorylation are classified as
827.	 a) sotonic contraction b) Isometric contraction c) Myosin d) Oxidative fibres immune cells derived frommonocytes.
828.	a) Acinus b) Collagen c) Lacunae d) Macrophages Which does stimulate the bone marrow to produce more RBCs?
	a) Erythrocyte b) Leucocyte c) Erythropoietin d) Thrombocyte
829.	exhibits a closed type of blood vascular system. a) Lampito mauritii b) Paired valves c) Ventral vessel d) Lateral hearts
830.	Branched tubes known as a) Salivary glands b)Trachea c) Stigmata d) Tracheoles
831.	The caloric value of protein is
022	a) 4.1 b) 9.45 c) 5.65 d) 9.1 Which is a protein (D antigen) present on the surface of the red blood cells in majority (80%) of
832.	humans? a) A group b)B group c) O group d) Rh factor
833.	What will happen if the stretch receptors of the urinary bladder wall are totally removed? a. Micturition will continue b. Urine will be continue to collect normally inthe bladder
	c. there will be no micturition
834.	d. urine will not collection the bladder Additional volume of air a person can inspire by forceful inspiration is called .
034.	a) Tidal Volume (TV) b) Inspiratory Reserve Volume (IRV) c) Expiratory Reserve Volume (ERV) d) Residual Volume (RV)
835.	Theanimals can tolerate onlynarrow fluctuations in the salt concentration.
836.	a) Osmotic homeostasis b) Osmoregulators c) Stenohaline d) Euryhaline What is the inflammation of the vermiform appendix?
030.	a) Peptic ulcer b) Appendicitis c) Hiatus hernia d) Diarrhoea
837.	What is the daily secretion of saliva from salivary glands? a) 1000
	to 1100ml b) 1000 to 1300ml c) 1000 to 1500ml d) 1000 to 1700ml
838.	What can cause any alteration in the composition of the bile?
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839.	a) Vomiting b) Jaundice c) Liver cirrhosis d) Gall stones It is movement takes place along the joints which act as fulcrum of the lever. a) Lever system
	b) Motor neuron
	c) Fibrous joints or Synarthroses
	d) Cartilaginous joints or Amphiarthroses
840.	The nitrogenous waste formed as a result of breakdown of amino acids is converted to urea in
	the liver by the
	a) Vasa recta b) Cortical nephrons
	c) Ornithine cycle d) Glomerular filtration
841.	The brain is mainly a sensory and an
	a) Supra-oesophagial ganglion b) Endocrine centre
	c) Sub-oesopnageal ganglion a) Circum-oesopnageal
842.	Which has to be reabsorbed by the renal tubules as it contains certain substances needed
	by the body?
0.43	a) 1.5 L per day b) Selective reabsorption c) Collecting duct d) Aquaporins
843.	Whichis the pressure in the arteries as the chambers of the heart contracts?
	a) Ventricular diastole b) Cardiac output
	c) Systolic pressure d) Diastolic pressure
844.	Early classification of organisms were based onanimals.
	a) Beneficial b) Harmful c) Beneficialor harmful d) All of these
845.	The clitellum is a distinct part in the body of earthworm Lampito mauritii, it is found in?
	a) Segments 13 - 14 b) Segments 14 - 17
	c) Segments 12 - 13 d) Segments 14 - 16
846.	is the part of the brain between the spinal cord and the diencephalon.
V.	a) Emotional brain b) Brain stem c) Mid brain d) Corpora
-	rigemina
847.	The mouth remains permanently closed while the nostrils remain open
	a) Cutaneous respiration b) Diffusion
	c) Buccal respiration d) Pulmonary respiration
848.	Eachmyosin molecule is made up of a monomer called .
0.00	a) Sarcomere b) Actin c) Meromyosin d) G-actin
849.	Find odd one out - Mesoderm.
	a) Nail b) Muscle c) Bone d) Heart
<i>850</i> .	Which of the following substances in to-bacco smoke damage the gas exchange system?
	a. carbon monoxide and carcinogens b. carbon monoxide and nicotine
	c. carcinogens and tar d. nicotine and tar
851.	The sclerites of lateral sides are called
	a) Sclerites b) Tergites c) Sternites d) Pleurites
852.	All agglutinogens contain
	a) Sucrose, D-galactose b)N-acetyl glucosamine
853.	c) 11 terminal amino acids d) All of the above Which of the following is a crustacean?
033.	a) Prawn b) Snail c) Sea anemone d) Hydra
854.	Granulated endoplasmic reticulum of a neuron is called .
UJ7.	a) Neurilemma b) Dendrites
	c) Nissls granules d) Axon hillock
855.	What is the process of the absorbed substances becoming components of cells?
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	a) Ingestion b) Digestion c) Absorption d) Assimilation
856.	is found lining the ureters, urinary bladder and part of the urethra.
	a) Non keratinizedsquamous epithelium type
	b) Stratified cuboidal epithelium
	c) Stratified columnar epithelium
	d) Transitional Epithelium
857.	are located at or near the surface of the body.
	a) Preganglionic neuron b) Autonomic ganglion
	c) Postganglionic neuron d) Exteroceptors
858.	What does form two sets of teeth during their life time?
	a) Thecodont b) Diphyodont c) Heterodont d) Homodont
859.	Which does seperate lobes of liver connect the liver with diaphragm
	a) Ampulla of vater b) Bartholins duct
	c) Cryptsof leiberkuhn d) Falciform ligament
860.	"Origin of Species" book was written by
	a) Aristotle b) John Ray c) Carolus Linnaeus d) Charles Darwin
861.	Theis colourless.
	a) Spiracular muscles b) Spiracles c) Open type d) Haemolymph
862.	Which does the process help in differentiation of stem cells of the bone marrow to
	erythrocytes in adults?
	a) Erythropoietin b) Erythropoiesis c) Haematocrit d) Granulocyte
863.	opens into the anterior part of the ejaculatory duct.
	a) Malpighian tubules b) Mushroom shaped gland
	c) Seminal vesicles d) Gonapophyses
864.	The dorsal wall of the intestine is folded into the cavity as the
	a) Hydrostatic skeleton b) Kalinc) Intestine d) Typhlosole
865.	Thelies on the ventral side in the 14th segment.
	a) Dorsal pores b) Coelomic fluid
	c) Female genital aperture d) Male genital apertures
866.	It is an advantageous type of symmetry in triploblastic animals, which helps in
	more efficiently.
	a) seeking food b) locating mates
0/7	c) escaping from predators d) all of the above
867.	ATPase enzyme needed for muscle contraction is located in
040	a. actinin b. troponin c. myosin d. actin
868.	Which are phagocytic cells that are similar to mast cells and have kidney shaped nucleus?
0/0	a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets Name the build-up of atheroma contain cholesterol, fibres, dead muscle and platelets?
869.	
<i>87</i> 0.	a) Coronary heart disease b) Atherosclerosis c) Thrombus d) Stroke Of the new animal species discoveredin India, are invertebrates and
6/0.	vertebrates.
	a) 258 and 55 b) 158 and 45 c) 358 and 85 d) 200 and 25
871.	is present in thick filaments of muscles.
0/1.	a) Isotonic contraction b) Isometric contraction
	, , , , , , , , , , , , , , , , , , ,
0.70	
872.	Which is prolonged inspiration due to increase in CO ₂ concentration?
072	a) Hypoxia b) Pneumothorax c) Vocal cords d) Yawning
<i>87</i> 3.	An unconscious patient is rushed into the emergency room and needs a fast blood transfusion.
	Because there is no time tocheck her medical history or determine her blood type, which type of blood should you as her doctor, give her?
	a) A- b) AB c) O+ d) O-
874.	Each branch at the distal end of the axon terminates into a bulb like structure .
U/ 4 .	Lucit bi uncit at the distatend of the axon terminates into a batb tike structure
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	a) Myelin sheath b) Synaptic knob
	c) Neuro-muscular junction d) Multipolar neurons
<i>87</i> 5.	Which is the electrical potential difference across the plasma membrane of a
	resting neuron?
	a) Bipolar neurons b) Unipolar neurons
	c)Intracellular fluid d) Resting membrane Potential
876.	is commonly found in Tamil Nadu.
	a) Endogeics b) Lampito mauritii c) Porphyrin d) Metameres
<i>877</i> .	What is the function of lymph?
	a) Transport of O2 into brain c) Bring interstitial fluid in blood
070	b) Transport of CO2 into lungs d) Bring RBC and WBC in lymph node
<i>87</i> 8.	Which is devoid of photo receptors?
0.70	a) Fovea centralis b) Blind spot c) Myopia d) Hypermetropia
<i>87</i> 9.	Name the organization found in sponges.
880.	a) Acellularlevel b) Cellular level c) Tissue level d) Organ levelis a post-mortem ,dissection of a dead body.
000.	a) Biopsy b) Autopsy c) Skeletal muscle tissue d) Smooth muscle
881.	The male frog has a copulatory oron the ventral side.
001.	a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky tongue
882.	
	a. Less amino acids inhis urine b. Macula densa cells
	c. Less urea in his urine d. More sodium in his urine
883.	The voltage-gated Na+ and K+ channels are concentrated at the
	a) Repolarisation b) Hyperpolarization c) Lazy gates d) Nodes of Ranvier
884.	is the science of arrangement of living organisms.
	a) Taxonomy b) Classification c) Nomenclature d) Identification
885.	The increase in blood nitrogen content can lead to a condition called
	a) Nitrogen narcosis b) Oxyhaemoglobin
	c) Haemoglobin d) All of theabove
886.	Marcello Malpighi describedas vasa varicose.
	a) Malpighian tubules b) Mushroom shaped gland
	c) Seminal vesicles d) Gonapophyses
007	common ananing for the digastive everetory and reproductive systems
<i>887</i> .	common opening for the digestive, excretory and reproductive systems.
	a) Nictitating membrane b) Tympanic membranes c) Cloacal aperture d) Fore limbs
888.	How is hepatic lobe covered by a thin connective tissue sheath?
000.	a) Malphigians capsule b) Glissons capsule
	c) Cystic duct d) Sphincter of Oddi
889.	produces heat by non-shivering thermogenesis in neonates.
	a) Adipocytes b) Adipose tissue c) Brown fat d) White fat
890.	The receptors for taste and smell are the
	a) Sensory-neural deafness b) Otoliths
	c) Crista ampullaris d) Chemoreceptors
891.	Find odd one out - Which one is not found in organ level of organization?
	a) Flatworms, nematodes, b) Annelids, arthropods,
	c) Molluscs, echinoderms d) Sponges, chordates.
892.	The first seven pairs of ribs are called trueribs or
	a) Vertebro-sternal ribs b) Vertebro-chondral ribs
	c) Vertebral ribs d) Acromion
893.	Glomerular filtrate contains
	a. Blood without blood cells and proteins b. Plasma without sugar
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894.	In which of the following phyla, the adult shows radial symmetry but the larva shows
	bilateral symmetry?
	a) Mollusca b) Echinodermata c) Arthropoda d) Annelida
895.	Kidney of frog is
	a) Archinephros b) Mesonephros c) Pronephros d) Metanephros
896.	During aestivation and hibernationtakes place through skin.
	a) Gaseous exchange b) Pericardium
	c) Sinus venosus d) Truncus arteriosus
897.	The ascending limb continues as a highly coiled tubular region in nephron is called the
0 // .	The ascending timb continues as a mighty cortea tabatar region in hepimon is catted the
	a) Distal convoluted tubule b) Collecting duct
	c) Juxta medullary nephrons d) Glomerulus
898.	Arteries do not always branch into arterioles, they can also form
070.	a) Arteries b) KiloPascal (KPa) c) Small sphincter d) Anastomoses
899.	The main function of the cuboidal epithelium is
077.	a) Protection b) Secretion c) Absorption d) Both (b) and (c)
000	Numerous have made tremendous contribution anddocumentation in the
900.	
	observation and study of even minute characters in living organisms.
004	a) selections b) taxonomists c) both of these a) home of these
901.	How long food remain in the stomach?
	a) 2 to 3 hours b) 4 to 5 hours c) 3 to 4 hours d) 5 to 6 hours
902.	In which the atria contracts while the ventricles are still relaxed?
	a) Tachycardia b) Bradycardia c) Ventricular diastole d) Atrial systole
903.	Which is the middle layer of heart wall?
,05.	
,05.	a) Epicardium b) Myocardium c) Endocardium d) Pericardial space
703.	
, o o .	
904.	a) Epicardium b) Myocardium c) Endocardium d) Pericardial space
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904. 905.	a) Epicardium b) Myocardium c) Endocardium d) Pericardial space The junction between the motor neuron and the sarcolemma of the muscle fibre is called the a) Adenosine triphosphate b) Neuromuscular junction c) Skeletal Muscle Glycogen Analysis d) 5000 glucose units The dark A-bands of myofibril is called a) Sarcoplasm b) Myoglobin c) Glycosomes d) Anisotropic bandsforms an internal framework, stroma. a) Reticular connective tissue b) Dense connective tissues c) Dense regular connective tissues
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913.	a) Hypognathous b) Orthopterus c) Hypopharynx d) Prothoracic Which is an intrinsic factor responsible for the absorption of Vitamin B12? a) Parietal b) Oxyntic c) Castles d) Zymogen
914.	Depending on the presence or absence ofon the RBCs, blood group in individual belongs to four different types namely, A, B, AB and O.
915.	 a) Surface antigens b)Natural antibodies c) Agglutinins d) Glycosyltransferase means neck. a) Cervicum b) Hexapoda c) Tarsomeres d) Tegmina
916.	Whichis the fluid pressure exerted by the blood within the glomerular capillaries? a) Aquaporins b) Bowmans capsule hydrostatic pressure c) Glomerular capillary pressure d) Glomerulus
917.	Different kinds of tissues aggregate to form an organ to perform a specific function in a) Acellularlevel of Organisation b) Cellular level of Organisation c) Tissue level of Organisation d) Organ level of Organisation
918.	Which of the following statements is wrong regarding conduction of nerve impulse? a. In a resting neuron, the axonal membrane is more permeable to K+ ions and nearly imperme-able to Na+ ions. b. Fluid outside the axon has a high concentration of Na+ ions and low concentration of K+, in a resting neuron.
	 c. Ionic gradient s are maintained by Na-K pumps across the resting membrane, which transport 3Na ions outwards for 2K+ into the cell. d. A neuron is polarized only when the outer surface of the axonal membrane possess a negative a charge and its inner surface is positively charged.
919.	It transmits impulse from CNS to the effec-tor organ. a) Sensory Receptor b) Sensory Neuron
	c) Interneurons d) Motor Neuron
920.	What is the technical term to mineral salts like calcium and magnesium deposited and form a hard layer on the teeth?
	a) Tartar,calculus,plaque b) Efflorescence c) Both of these d) None of these
921.	How- is- respiration- found- in- fishes? a) Moist skin b) Tracheal tubes c) Gills d) Vascularized lungs
922.	What is happen due to cigarette smoking? a) about 80% of the lung cancer b) Cardio vascular system c) Nicotine d) All of the above
923.	are about 100-150 in number and are present in 6-9 bundles. a) Malpighian tubules b) Mushroom shaped gland c) Seminal vesicles d) Gonapophyses
924.	Which is a character of Hemichordata? a) They are ciliary feeders
925.	 b) Their circulatory system is simple and with a dorsal heart c) Respiration is through paired gill slits opening into the pharynx d) All of the above Additional volume of air a person can forcefully exhale by forceful expiration is called
	a) Tidal Volume (TV) b) Inspiratory Reserve Volume (IRV) c) Expiratory Reserve Volume (ERV) d) Residual Volume (RV)
926. 927.	What is the technical term of tooth embedded in a socket in the jaw bone? a) Thecodont b) Diphyodont c) Heterodont d) Homodont The Tidal Volume of a normal person is
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928.	a. 800 mL b. 1200 mL c. 500 mL d.1100 - 1200 Ml Which glands secrete mucus and enzymes in the wall of the duodenum?
	a) Gastric glands b) Duodenal glands c) Pyloric glands d) Brunners glands
929.	Whichis a condition when the blood vessels in the brain bursts?
020	a) Coronary heart disease b) Atherosclerosis c) Thrombus d) Stroke
930.	acts at different sites such as heart, kidney,brain, adrenal cortex and bloodvessels. a) Diabetes insipidus b) Angiotension I
	c) Angiotension II d) Renin- Angiotensin- Aldosterone System
931.	The vesicles release their neurotransmit-ters into the synaptic cleft by
	a) Pre-synaptic neuron b) Cleft c) Exocytosis d) Brain
932.	How does bolus further pass down through the oesophagus to the stomach by
succ	essive waves of muscular contraction?
	a) Swallowing b) Deglutition c) Peristalsis d) All of the above
933.	Which is made up of thin squamous epithelium with some connective tissues?
024	a) Serosa b) Muscularis c) Submucosa d) Mucosa
934.	Which are non-phagocytic and constitute about 2-3% of the total WBCs? a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
935.	Each dark band has a lighter region in its middle called the .
933.	a) Isotropic bands b) H-Zone c) M-line d) Z-disc
936.	considered species as the basic unit of classification.
750.	a) Origin of Species by Systema naturae
	c) HistoriaGeneralis Plantarum d) Tautonymy
937.	These are places where wild animals are kept in protected environments under human
	care.
	a) Taxonomical keys b) Museums c) Zoological parks d) Marine parks
938.	Which is the rhythmic peristaltic movement churns and mixes the food with gastric juice and
	make it into a creamy liquid?
000	a) Chyme b) Bolus c) Both of these d) None of the above
939.	What is the common duct called hepato-pancreatic duct?
	a) Ampulla of vater b) Bartholins duct c) Crypts of leiberkuhn d) Falciform ligament
	c) cryptso, telberkulli a) rateljorii tigament
940.	The cranial bones form the hard protective outer covering of the brain and called the
	a) Exoskeleton b) Endoskeleton c) Brain box d) External auditory meatus
941.	An adult human on an average excretesof urine per day.
	a) Counter current multiplier b) Atrial Natriuretic Peptide or factor
942.	c) Micturition d) 1 to 1.5L is consisting of cluster of cells.
742.	a) Pseudo-stratified epithelial b) Glandular epithelium
	c) Goblet cells d) Salivary gland
943.	Which is Chronic Obstructive Lung Disease?
	a) Apnoea b) Book gills c) Book lungs d) COLD
944.	The cocoons have an incubation period of about 14- 18 days after they hatch to
	a) Juveniles b) Non-clitellate c) Clitellate d) 60 days
9 4 5.	The average blood volume is about
	a) 5000ml b)5500ml c) 6000ml d) 6500ml
946.	The head of femur articulates with the of the pelvis to form the hip joint.
0.47	a) Ischium b) Acetabulum c) Tarsus d) Metatarsus
947.	The synthesis of surfactants begins only after theof gestation.
	a) 20th week b) 25th week c) 30th week d) 35th week
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948.	Which have thinner walls and a larger lumen and hence can be easily stretched?
	a) Capillaries b) Veins c) Coronary artery d) Open circulatory system
949.	This domain includes single celled organisms
	a) Archaea b) Bacteria c) Eukarya d) All of these
950.	Common oviduct known as, which opens into the genital chamber.
	a) Ovarioles b) Vagina c) Ootheca d) Paurometabolus
951.	Name the enzyme RBCs contain a high concentration.
	a) Carbon dioxide b) Carbon monoxide
	c) Carbonic anhydras d) Carbonic amylase
952.	A pair offorms the ear drum behind the eyes.
	a) Nictitating membrane b) Tympanic membranes
	c) Cloacal aperture d) Fore limbs
953.	secretes the protective lubricating mucus.
	a) Microvilli b) Goblet cell c) Ciliated epithelium d) Nonciliated epithelium type
954.	The action potential reaches a certain level, called
	a) Sodium-Potassium pump b) Depolarization
	c) Threshold potential d) All or none principle
955.	have myosin ATPase activity but cannot make as much ATP as oxidative fi-bres,
	because their source of ATP is glycol-ysis.
	a) Slow -oxidative fibres b) Fast - oxidative fibres
	c) Fast - glycolytic fibres d) Hydrostatic skeleton
956.	in the gastric glands secrete gastric enzymes and Goblet cellssecrete mucus
0.57	a) Chief cells b) Peptic cells c) Zymogen cells d) All of the above
957.	Few organisms live in salty environments.
050	a) Extremophiles b) Halophiles c) Thermoacidophiles d) All of the above Find odd one out-Cyclostomata
958.	a) Shark b) Sting ray c) Lamprey d) Saw fish
959.	Inflammation of joints due to accumula-tion of uric acid crystals is called as
737.	a. Gout b. myasthenia gravis c. osteoporosis d. osteomalacia
960.	The vasa recta, maintains the medullary osmotic gradient viaby passive transport.
700.	a) Tubular secretion b) Osmolarity
	c) Countercurrent exchanger d) Hypothalamus
	a) Trypomatamas

961.	Who coined the term biodiversity?
	a) Walter Rosen b) AG Tansley c) Aristotle d) AP de Candole
962.	Which is intestinal juice?
	a) Sphincter of boydon b) Sphincter of oddi
	c) Stensons duct d) Succusentericus
963.	Which is a red- coloured respiratory pigment of the muscle fibre?
	a) Sarcoplasm b) Myoglobin c) Glycosomes d) Anisotropicbands
964.	indicates categories at different levels, for example Kingdom Animalia, includes
	multicellular animals such as reptiles,mammals, etc.
	a) Taxa b) Class c) Species d) Phylum
965.	The protein present in the thin filament is
	a. myosin b. actin c. pectin d. leucin
966.	The bilobed mass of nervous tissue called
	a) Supra - pharyngeal ganglia b) Tufted nephridia c) Integumentary nephridia d) Septal nephridia
0.47	c) integumentary nephriaia a) Septal nephriaia
967.	The body setae of earthworm arises from aof the skin.
0/0	a) Setigerous sac b) Pre clitellar c) Clitellar d) Post - clitellar Which can be heard the two sounds during each cardiac cycle?
968.	a) Bundle of His b) Purkinje fibres c) Pacemaker d) Stethoscope
969.	In additionare also present as two groups.
707.	a) Maxillary teeth b) Vomerine teeth c) Lower jaw d) Oesophagus
970.	Which does secrete HCl?
770.	a) Chief cells b) Peptic cells c) Zymogen cells d) Parietal cells
971.	Name Along with villi, the ileal mucosa also contain mucus secreting goblet cells and
771.	lymphoid tissue which producelymphocytes
	a) Peyers patches b) Crypts of Leiberkuhn
	c) Vermiform appendix d) Haustra
972.	contains fibroblasts, macrophages, and mast cells.
	a) Specialized connective tissues b) Areolar connective tissue
	c) Tissue fluid d) Adipose tissue
<i>97</i> 3.	Which of the following does not have an open circulatory system?
	a) Frog b) Earthworm c) Pigeon d) Cockroach
974.	If two or more organs perform common physical and chemical functions
0.75	a) Tissues b) Organs c) Living fabrics d) Organ systems
975.	Tissues are organized in specific proportions and patterns to form a) Tissues b) Organs c) Living fabrics d) Organ systems
976.	a) Tissues b) Organs c) Living fabrics d) Organ systems resembles areolar connective tissue, but, the matrix is filled with fibroblasts.
770.	a) Reticular connective tissue
	b) Dense connective tissues
	c) Dense regular connective tissues
	d) Dense irregular connective tissues
977.	The sphincter of Oddiguards
	a) Hepatopancréatic duct b) Common bile duct
	c) Pancreatic duct d) Cystic duct
<i>97</i> 8.	Progressive inability to secrete saliva and tears
	a) Stickler syndrome b) Rhabdomyosarcoma
	c) Rheumatoid arthritis d) Sjogrens syndrome
<i>97</i> 9.	Why is the velocity of blood flow the lowest in the capillaries?
	a) The systemic capillaries are supplied by the left ventricle, which has a lower cardiac
	output than theright ventricle.
	b) Capillaries are far from the heart, and blood flow slows as distance from the heart
	i ncreases.

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c)T
                  han the total surface area of the arterioles.
          h
                d) The capillary walls are not thin enough to allow oxygen to exchange with the
          e
                e) The diastolic blood pressure is too low to deliver blood to the capillaries at a
                  high flow rate.
          t
                How does the small intestine assist in the final process of food?
          980.
                a) Digestion
                                   b) Absorption
                                                       c) Both of these
                                                                              d) None of theabove
          t
                Name the process of absorption of micro molecules into the blood stream.
          281.
          l
                a) Ingestion
                                  b) Digestion
                                                     c) Absorption
                                                                         d) Assimilation
          982.
                     carry with them harmful germs of various bacterial diseases.
                a) Fishing
                                b) Cockroach
                                                    c) Cursorial
                                                                       d) Vectors
          S
                        trunk supplies blood to the anterior region of the body.
                 The
          1983.
                                                                         c) Carotid
                a) Systemic trunk
                                        b) Pulmo-cutaneous trunk
                                                                                         d) Blood
                Partially digested food called is passed from the stomach.
          1984.
                                                                         d) Chyme
                a) Liver
                              b) Bilobed
                                               c) Hydrochloric acid
          a
          Q85.
                 ___is due to the rough (irregular) curva-ture of cornea or lens.
                a) Erythropsin
                                      b) Chloropsin
                                                           c) Presbyopia
                                                                                d) Astigmatism
          986.
                 Which cells exhibit amoeboid movement for engulfing pathogens?
          a
                a) Macrophages
                                               b) Ciliary movement
          r
                 c) Flagellar movement
                                               d) Muscular movement
          <del>9</del>87.
                 Several statements are given here in reference to cone cells which of the
                following option in-dicates all correct statements for cone cells?
                 Statements
          0
                 (i) Cone cells are less sensitive in bright light than Rod cells
          f
                 (ii) They are responsible for colour vision
                 (iii) Erythropsin is a photo pigment which is sensi-tive to red colour light
          t
                 (iv) They are present in fovea of retina
          h
                 a. (iii), (ii) and (i)
                                         b. (ii) , (iii) and (iv)
          е
                                        d. (i), (ii) and (iv)
                c. (i), (iii) and (iv)
          .88ع
                    _affects collagen and results in facial abnormalities.
                a) Stickler syndrome
                                             b) Rhabdomyosarcoma
          a
                                             d) Sjogrens syndrome
                c) Rheumatoid arthritis
          989.
                     the defect may be in the organ of Corti.
                a) Sensory-neural deafness
                                                    b) Otoliths
                c) Crista ampullaris
                                                     d) Chemoreceptors
                      is the second largest part of the brain.
          ള90.
                a) Rhombencephalon b) Cerebellum
          r
                c) Pons varoli
                                               d) Medulla oblongata
          i
                 Which is the character not included in class Mammalia?
          991.
                a) A neurotoxin called Homobatrachotoxin is found in its skin and feathers,
                causes numbness and tingling
                b) Their body is covered by hair, a unique feature
                c) Some of them are adapted to fly or live in water
          i
                d) Presence of mammary glands
                Which is recorded the changes in electrical potential across the heart
                during one cardiac cycle?
          l
                a) Electrocardiogram
                                            b) Sinu Auricular node
                                                                        c) P wave
                                                                                         d) T wave
          a
                Find odd one out - Large intestine is involved in absorption of more amounts of ____.
          ₽93.
                a) Water
                                                 b) Minerals and certaindrugs
          e
                c) Alcohol and medicines
                                                d) Vitamins
                Which is the character of tidal volume?
                a) It is approximately 500 ml
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b)	С	ng vigorous exercise, is about 4-10 times higher	
	a	d) All of the above	
	99 5.	is a process by which things are grouped in convenient categories, based on easily observable characters.	
	i	a) Taxonomy b) Classification c) Nomenclature d) Identificat	ion
	99 6.	Which mechanism of digestion starts in the mouth?	
	S	a) Grinding b) Chewing c) Mastication d) All of the above	
	997 .	Which is chronic disease of liver results in degeneration and destruction of liver	-
	i	cells?	
	r	a) Vomiting b) Jaundice c) Liver cirrhosis d) Gall stones	
	€000	. Which is the primary function of the respiratory system?	
	_	a) To exchange O ₂ and CO ₂ between the atmosphereand the blood	
	o r	b) To maintain homeostatic regulation of body pH	
	'	c) To protect us from inhaled pathogens and pollutants d) All of the above	
	@ 001	. Which increases the glomerular blood pressure and glomerular filtration rate?	,
	X	a) Diabetes insipidus b) Angiotension I	
	р	c) Angiotension II d) Renin- Angiotensin- Aldosterone System	
		. Which character is not included in Ctenophora?	
	r	a) They have eight external rows of ciliated comb plates	
	e	b) The polyp represents the asexual generation and medusa the sexual generati	on
		c) Bioluminescenceis well marked	
	a	d) They lack nematocysts but possess special cells called lasso cells or	
	p	colloblasts	
		. The animals are able to tolerate wide fluctuations in the salt concentrations	
	r ⊕004	a) Osmotic homeostasis b) Osmoregulators c) Stenohalined) Euryhalineis a standard method to measure muscle glycogen.	
	¥004 Χ	a) Adenosine triphosphate b) Neuromuscular junction	
	i	a) Adenosine triphosphate b) Neuromuscular junction c) Skeletal Muscle Glycogen Analysis d) 5000 glucose units	
	<i>P</i> 005	. The sense of taste is considered to be the most pleasurable of all senses_	
	а	·	
	t	a) Gustatory receptor b) Papillae c) Gustatory hairs d) Skii	n
	9006	. Theis a heavy structure specialized for weight bearing.	
	ι V	a) Humerus b) Glenoid cavity c) Olecranon process d) Pel	vic
	У	girdle	
	1007	. The largest order, which includes the frogs and toads.	
	0	a) Rana hexadactyla b) Amphibian c) Anura d) Poikilothermic	
	2008	help to stretch body muscles for more freedom of joint movements.	
	0	a) Muscle pull b) Myasthenia gravis c) Flexibility exercises d) Myasthenia gravis	
	1000	are classified as cartilage, bones and blood.	
	•	a) Elastic connective tissue b) Specialised connective tissues	
	0	c) Cartilages d) Bones	
	5 010	. Éarthworms have their most important organ in the first	
	0	a) 20 segments b) Regenerate c) Oviducts d) Spermathecae	
	£011	. Which is a hormone secreted by the kidneys in response to low oxygen?	
	0	a) Erythropoietin b) Erythropoiesis c) Haematocrit d) Granulocyte	
	1012.	movement of hands, legs, jaws, tongue are caused by the	
	l	contraction and relaxation of the muscle.	
c)	D	a) Macrophages b) Ciliary movement	
	U 4013	c) Flagellar movement d) Muscular movement . Which is longitudinal muscular chords in the colon?	
	i i	a) Taeniae coli b) Valves of kerkring c) Whartons duct d)	
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S
                                      d) Spermathecae
                cts
                    is inflammation of joints due to accumulation of uric acid crystals.
 и
 C
                a) Rheumatoid arthritis
                                              b) Gouty arthritis or gout
 c
                c) Osteoporosis
                                              d) Endurance
           1016. What is called anal column get enlarged?
 и
 S
                               b) Haemorrhoids
                                                                         d) None of the above
                 a) Piles
                                                      c) Both of these
 e
 n
           1017. What is the role of bile?
 t
 e
                 a) Emulsification of fats
                                               b) Digestion of lipids
                 c) Both of these
                                              d) None of theabove
 C
          1018. Which type of movement occurs in the cells which are having flagella or
 и
                whip-like motile organelle?
 S
                a) Macrophages
                                               b) Ciliary movement
  1014
             are INTERBURS MAYEMS REMENTS AT HY BEAULAU THAY EDENTHA
        a 1019.
                     that forms a structural gap and a functional bridge between neurons.
                a) Pre-synaptic neuron
                                              b) Cleft
                                                            c) Exocytosis
                                                                                 d) Brain
          1020. The dorsal vessel is connected with the ventral vessel by eight pairs of
                a) Lampito mauritii
                                         b) Paired valves
                                                               c) Ventral vessel
                                                                                      d) Lateral
        2
                hearts
        0
          1021. "Historia Generalis Plantarum" book was written by_
                a) Aristotle
                                                   c) Carolus Linnaeus
                                 b) John Ray
                                                                             d) Charles Darwin
          1022. Sexually, earthworms are
                a) Sexes are separate
                                                            b) Hermaphroditic but not self -
        g
                fertilizing
        m
                c) Hermaphroditic and self - fertilizing
                                                           d) Parthenogenic
        e
                    is the sensory organ of touch.
          1023.
        n
                a) Gustatory receptor
                                                                                       d) Skin
                                             b) Papillae
                                                              c) Gustatory hairs
        t
                     a viviparous cockroach.
          1024.
                a) Moulting
                                 b) Allergen
                                                   c) Diploptera punctata
                                                                               d) Super food
                 Which is iron containing red pigment of RBCs of vertebrates, gives red colour to
        b 1025.
          blood?
                a) Dyspnoea
                                   b) Epiglottis
                                                     c) Haemoglobin
                                                                           d) Herring-Breuer
                reflex
        R
                     do not have ducts.
          1026.
                a) Exocrine glands
                                               b) Endocrine glands
        g
                c) Compound epithelium
                                              d) Keratinized squamous epithelium type
        е
          1027. The oxidative fibres are termed as
        n
                                            b) Glycolytic fibres
                a) Red muscle fibres
        е
                c) White muscle fibres
                                           d) Cartilage
        r
                     is a narrow, thin transverse band followed by medulla oblongata.
        а
          1028.
        t
                a) Olfactory ventricle
                                          b) Optic ventricles
                c) Rhombencephalon
                                          d) Cerebellum
        е
           1029. Sponges exhibit cellular level of organization. Because,
        C
                a) Arranged as loose aggregates and form tissues
                b) Arranged as loose aggregates and do not form tissues
                c) Arranged as loose aggregates and form cells
        0
                d) All of the above
          1030. Which is the outer layer of heart wall?
        i
                a) Epicardium
                                    b) Myocardium
                                                                               d) Pericardial
                                                         c) Endocardium
        d
                space
        u 1031. "Systema naturae" book was written by ...
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s Darwin
          1032. Find odd one out - Radial symmetry.
                a) Paired body parts that are arranged on either side of a plane passing
                through the central axis
        Α
                b) When any plane passing through the central axis of the body divides an
        r
                organism into two identical parts
                c) Animals have a top and bottom side but no dorsal and ventral, no right and left
        S
        t
                d) An asymmetrical body plan is also seen in adult gastropods
        0
          1033. Which is damaged by carbon monoxide and nicotine?
        t
                a) about 80% of the lung cancer
                                                     b) Cardio vascular system
                c) Nicotine
                                                        d) All of theabove
        е
          1034. Common Indian green frog scientific name is
                a) Rana hexadactyla
                                       b) Amphibian
                                                             c) Anura
                                                                            d) Poikilothermic
          1035. Which method of exchange of gases takes place in sponges,
                coelenterates and flatworms?
                a) Diffusion
                                 b) Simple diffusion
                                                          c) Passive transport
        J
                                 d) Active transport
        0
                     functions to provide names for all taxa at all levels in the hierarchy of life.
        h 1036.
                a) Systematics
                                     b) Nomenclature
                                                           c) Biodiversity
                                                                                d) Classification
          1037. Which is the structural and functional unit of kidneys?
                                     b) Nephron
                                                      c) Aglomerular kidneys
        R
                a) Crustaceans
                                                                                   d) 120-170
                grams
        а
          1038.
                   is biting and chewing type.
                                       b) Orthopterus
                a) Hypognathous
                                                           c) Hypopharynx
                                                                                 d) Prothoracic
        c 1039. Muscles are formed by
                a. myocytes
                                   b. leucocytes
                                                                            d. lymphocytes
                                                       c. osteocytes
          1040. Which does represent ventricular depolarization?
                a) Electrocardiogram
                                          b) Sinu Auricular node
                                                                       c) P wave
                                                                                       d) Twave
        a 1041. protected by a third transparent eyelid.
        r
                a) Nictitating membrane
                                              b) Tympanic membranes
                c) Cloacal aperture
                                              d) Fore limbs
        0
          1042. Which level of organisation is exhibited in diploblastic animals like cnidarians?
        l
                a) Acellular level of Organisation b) Cellular level of Organisation
        и
        s
                c) Tissue level of Organisation
                                                      d) Organ levelof Organisation
                     which lie in the dermis responds to continuous pressure.
        L
                a) Ruffini endings
                                        b) Krause end bulbs
                                                                    c) Melanocytes
                                                                                          d)
        i
                Vitiligo
        <sup>n</sup> 1044. Which is involved in absorption of more amounts of water?
                a) Stomach
                                 b) Duodenum
                                                     c) Small intestine
                                                                             d) Large intestine
          1045. What is the name of narrow finger like tubular projections that opens into the
        е
          colon?
        и
                a) Peyers patches
                                            b) Crypts of Leiberkuhn
        S
                c) Vermiform appendix
                                            d) Haustra
          1046. What is the opening of trachea?
                               b) Epiglottis
                a) Glottis
                                                 c) Both of these
                                                                       d) All of the above
          1047. Wax producing sebaceous glands called in the external auditory meatus.
                a) Cataract
                                  b) Ceruminous glands
                                                               c) Middle ear
                                                                                   d)
        C
                Eustachian
       <sup>h</sup> tube
          1048. Which are collected in the lymphatic fluid carried via the arterial blood and are
                recycled back to the lymph?
                a) Lymphocytes b) Tunica intima c) Tunica media d) Tunica externa
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1049
                ) Rheumatic fever
                                           d) CPR
         Whichis remarkably reduced it leads to death of the muscle fibres?
        а
          1050. Which of the following is not trueregarding intestinal villi?
                a) They possess microvilli.
                b) They increase the surfacearea.
        М
                c) They are supplied with capillaries and the lacteal vessels.
        У
                d) They only participate in digestionof fats.
        0
        c 1051. What is the name of a cartilaginous flap prevent the entry of foodduring
        a swallowing?
                a) Glottis
                               b) Epiglottis
                                                 c) Both of these
                                                                       d) All of the above
        d 1052. Which individuals who do not carry antigen D on the surface of the red blood cells
        i ?
                             b) Rh2
                                          c) Erythroblastosisfoetalis
                a) Rh1
                                                                         d) Prothrombin
        а
        l 1053. The volume of the urine released is around
                a) 1.5 Lper day
                                     b) Selective reabsorption
                                                                   c) Collecting duct
                                                                                           d) Aquapori is
         1054. The life cycle of Lampito mauritii takes about to complete.
                a) Juveniles
                                 b) Non-clitellate
                                                        c) Clitellate
                                                                         d) 60 days
        n
                     are isolated glandular cells of the alimentary canal.
          1055.
                a) Pseudo-stratified epithelial
                                                  b) Glandular epithelium
        а
                C) Goblet cells
                                                     d) Salivary gland
        r
          1056. Name the partof stomach which open to oesophagus.
                                                c) Corpus
                a) Cardiac
                                b) Fundus
          1057. Kidney stones are produced due to deposition of uric acid and
                                                 c. calcium carbonate
                a. silicates
                                b. minerals
                                                                             d. calcium oxalate
        n 1058. The undigested particles along with earth are passed out through the anus
                a) Intestinal caecae b) Vermicasts
                                                             c) Respiratory organs
                Oxygen
          1059.
                  tissue is used to support.
                a) Epithelial tissue b) Connective tissue
                c) Muscle tissue
                                        d) Nervous tissue
         1060. Find odd one out - Reptiles.
                a) Crocodile
                                 b) Toad
                                                c) Frog
                                                             d) Salamander
        C
        h 1061. Carl Woese & co - workers classified organisms based on the difference in
        e genes.
                a) 16S rRNA
                                  b) 5S rRNA
                                                   c) 70SrRNA
                                                                     d) 80SrRNA
          1062. Which the cytoplasmic granules are large sized, but fewer?
                a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
        C
                    _lines most of the digestive tract, gall bladder and secretory ducts of glands.
          1063.
                a) Microvilli
                                            b) Goblet cell
        h
                c) Ciliated epithelium
                                          d) Nonciliated epithelium type
        е
         1064. Lateral ventricles I and II are separated from each other by a thin
                membrane called the
        r
        t
                a) Lateral ventricles I and II
                                                  b) Septum pellucidum
                                                   d) Cerebro spinal fluid
                c) Aqueduct of Sylvius
                     is sensitive,green, to medium wave-length of 530 nm.
         1065.
                a) Erythropsin
                                     b) Chloropsin
                                                         c) Presbyopia
                                                                              d) Astigmatism
          1066. Whichmust be performed within 4 to 6 minutes after cessation of breath to
        <sup>e</sup> prevent brain
        a
                damage or death?
                a) William Harvey
                                       b) James Elam and Peter Safar
                                                                            c) CPR
                                                                                         d) Defibrillation
         1067. Which character is not included in Annelida?
                a) The longitudinal and circular muscles in the body wall
                b) Body is covered by chitinous exoskeleton
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e and suckers
c) H
  а
  ♦068. Their cell wall contains peptidoglycans.
       a) 70S type Bacteria
                                 b) 80S type Bacteria
  l
       c) Both of these
  а
                                   d) All of the above
  1069. Which does secrete HCl?
  r
       a) Chief cells
                                              c) Zymogen cells
                                                                     d) Oxyntic cells
                          b) Peptic cells
  а
  ነ070. Find out the character of Cyclostomata.
       a) Body is slender and eel-like bearing six to fifteen pair of gill slits for respiration
       b) Cranium and vertebral column are cartilaginous
       c) They are marine but migrate to fresh waters for spawning (anadromous
          migration)
  е
       d) All of the above
  #071. The coelom contains the coelomic fluid and serves as a
       a) Hydrostatic skeleton
                                    b) Kalin
                                                                   d) Typhlosole
                                                  c) Intestine
  4072. Which is found in soft-bodied inverte-brates?
        a) Slow - oxidative fibres b) Fast - oxidative fibres
        c) Fast - glycolytic fibres
                                       d) Hydrostatic skeleton
  1073. Vermiculture, vermicomposting, vermiwash and wormery are collectively
       a) Vermitech
                          b) Vermiculture
                                               c) Vermicomposting
                                                                         d) Vermiwash
  6074. During synaptic transmission of nerve im-pulse, neurotransmitter (P) is
        released from synaptic vesicles by the action of ions (Q). Choose the
        correct P and Q.
        a. P = Acetylcholine,
                                   Q = Ca + +
  е
  d
        b. P = Acetylcholine
                                    Q = Na +
        c. P = GABA,
                                    Q=Na+
        d. P = Cholinesterase
                                   Q = Ca + +
  4075. Which isplasma without fbrinogen?
       a) Serum b) Heparin c) Lymph d) Lymph nodes
  9076. Which of the following cranial nerve con-trols the movement of eye ball?
        a. trochlear nerve
                               b. optic nerve
                                                    c. Olfactory nerve
                                                                            d. vagus
        nerve.
  9077. Which is meant for gaseous exchange?
       a) Pleura
                      b)Trachea
                                       c) Lungs
                                                     d) Alveoli
  q_{m{078}}. One or more similar families are grouped together to form a/an\_
                       b) Genus
                                       c) Family
       a) Species
                                                      d) Order
  forms the hindbrain.
        a) Rhombencephalon
                                    b) Cerebellum
        c) Pons varoli
                                     d) Medulla oblongata
              may be used as tools for the study of plant taxonomy.
                            b) Botanical garden
       a) Herbarium
        c) Both of these
                            d) None of the above
  1081. Which is choking with difficulty in breathing?
       a) Cerebral infarction
                                b) Angina pectoris
                                                          c) Atheroma
                                                                            d) Chest
  1082. In both sexes, the 10th segment bears a pair of _
       a) Genital pouch
                             b) Gonapophysis
                                                    c) Anal styles
                                                                       d) Anal cerci
  1083. ___are light touch receptors lying around the hair follicles.
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Meissners corpuscles
                                               d) Pacinian corpuscles
        ) 1084. The ciliated epithelium lines the
                            b) Digestive tract
                a) Skin
                                                    c) Gall bladder
                                                                        d) Trachea
        T 1085. ___cells arranged into a circular secretory unit.
                a) Acinus
                               b) Collagen
                                                 c) Lacunae
                                                                  d) Macrophages
        а
        C
        t
          1086. Which runs down into the interventricular septumof heart?
                a) Bundle of His
                                     b) Purkinje fibres
                                                            c) Pacemaker
                                                                                d) Stethoscope
          1087. Which is a character of Hemichordata?
                a) Earlier treated as a subphylum of Chordata
                b) They are now regarded to be an independent phylum of invertebrates
        m
                c) This group possess the characters of invertebrates as well as chordates
        е
                d) All of the above
          1088. The affected person can see only the dis-tant objects clearly
                a) Fovea centralis
                                        b) Blind spot
                                                            c) Myopia
                                                                             d) Hypermetropia
          1089. They have a body plan in which the body parts are organised in a circle around an
          axis.
                a) Asymmetrical
                                      b) Diploblastic
                                                          c) Bilateral
                                                                           d) Triploblastic
        d 1090. Blood group is due to the presence or absence of surface
                a) Antigens on the surface of WBC b) Antibodies on the surface of RBC
        S
                c) Antigens of the surface of RBC
                                                    d) Antibodies on the surface of WBC
        c 1091. Elimination of performed by excretory system.
                a) Nitrogenous waste
                                           b) Mesonephric
                c) Ureotelic
                                            d) Urinary bladder
        b
        ) 1092. It is an autoimmune disorder affecting the action of acetylcholine at
                neuromuscular junction leading to fatigue.
                a) Synovial joints or Diarthroses joints
                                                             b) Myasthenia gravis
        Н
                c) Tetany
                                                                d) Muscle fatigue
        а
        i 1093. Who did publish Methodus Plantarum Nova?
                a) Theophrastus
                                      b) John Ray
                                                        c) Carolus Linnaeus
                                                                                  d) Ernst
                Haeckal
          1094.
                     help to stop substances from leaking across a tissue.
                a) Tight junctions
                                       b) Adhering junctions
                c) Gap junctions
                                       d) Connective tissue
          1095. Which is the symptom of acute mountain sickness (AMS)?
                a) Headache
                                               b) Shortness of breath
                c) Nausea and dizziness
                                             d) All of theabove
        C
          1096. The opening between the right atrium and the right ventricle is guarded by ...
                a) Tricuspid valve
                                         b) Bicuspid valve
        е
                c) Semilunar valves
                                         d) Trabeculaecorneae
          1097. Choose the incorrect sentence from the following:
                a) Bile juice emulsifies the fat.
        е
                b) Chyme is a digestive acidic foodin stomach.
        C
                c) Pancreatic juice converts lipid into fatty acid and glycerol.
        е
                d) Enterokinase stimulates thesecretion of pancreatic juice.
        P 1098. The muscles attached to the bones are called
        t
                a. skeletal muscle
                                            b. cardiac muscle
                c. involuntary muscle
                                            d. smooth muscles
          1099. The head region of Cockroach pairs of and shaped eyes occur.
        S
                a) One pair, sessile compound and kidney shaped
                b) Two pairs, stalked compound and round shaped
        С
                c) Many pairs, sessile simple and kidney shaped
                d) Many pairs, stalked compound and kidney shaped
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1100
                nst Haeckal
         Who was known the 'Hiptberrath' Ratany' activated by changes in the blood volume,
                body fluid volume and ionic concentration.
        а
                a) Osmoreceptors
                                                                  b) ADH
                c) Angiotensin Converting Enzyme inhibitors
                                                                   d) Diabetes insipidus
        T 1102. Which character is not included in Sponges?
        h
                a) They are primitive, multicellular, sessile animals
        е
                b) Cnidocytesor cnidoblasts seen with stinging cells or nematocyst on tentacles
        0
                c) The cells are loosely arranged
        р
                d) They are either radially symmetrical or asymmetrical animals
        h
          1103. Which character is not included in Ctenophora?
                a) Digestion is both extracellular and intracellular
        r
        а
                b) Sexes are not separate (monoecious)
        s
                c) Polyps produce medusa asexually and medusa forms polyps sexually
        t
                d) They reproduce only by sexual means
        u 1104. is characterized by increase in urea.
        S
                a) Uremia
                                                      b) Renal calculi
                c) Pyleothotomy or lithotripsy
                                                    d) Glomerulo nephritis
          1105. Match the following.
        b
                A) Pharynx - i) 6th segment
                B) Oesophagus - ii) 14th to last segment
                C) Gizzard - iii) 19th to last segment
        0
                D) Intestine - iv) 5th to 9th segment
        h
                E) Pharyngeal nephridia - v) 3rd to 4th segment
                F) Micronephridia - vi) 7th segment to anus
        n
                G) Meganephridia - vii) 5thsegment
        R
                a) A - i), B - ii), C - iii), D - iv), E - v), F - vi), G - vii)
                b) A - v), B - vii), C - i), D - vi), E - iv), F - ii), G - iii)
        a
        У
                c) A-i), B-iii), C-iv), D-ii), E-vi), F-vii), G-v)
                d) A - vii), B - vi), C - v), D - iv), E - iii), F - ii), G -i)
                   fibres taper at both ends (fusiform) and do not show striations.
          1106.
                a) Biopsy
                                                  c) Skeletal muscle tissue
                                b) Autopsy
                                                                                 d) Smooth muscle
        C 1107. The centre of the inner concave surface of the kidney has a notch called the .
                                             b) Renal columns of Bertini
        а
                a) Medullary pyramids
                c) Renal hilum
                                              d) Renal corpuscle
        r
          1108. Which fibres spread into the ventricles?
        l
                a) Bundle of His
                                    b) Purkinje fibres
                                                                                   d) Stethoscope
                                                              c) Pacemaker
                    beneath the skin acts as a support framework for epithelium.
        и
          1109.
        S
                a) Specialized connective tissues
                                                        b) Areolar connective tissue
                c) Tissue fluid
                                                          d) Adipose tissue
          1110.
                     consists of the cerebellum and medulla oblongata.
        i
                a) Olfactory ventricle
                                           b) Optic ventricles
                                           d) Cerebellum
                c) Rhombencephalon
        n
        n 1111. The medulla is divided into a few conical tissue masses called
                a) Medullary pyramids
                                          b) Renal columns of Bertini
        а
        е
                c) Renal hilum
                                              d) Renal corpuscle
        u 1112.
                     __keeps the body surface moist and free from harmful microorganisms.
        s
                a) Dorsal pores
                                                  b) Coelomic fluid
                c) Female genital aperture
                                                 d) Male genital apertures
        d 1113.
                     is articulated with the occipital condyles
                a) Hyoid bone
                                      b) Foramen magnum
                                                                   c) Atlas
                                                                                  d) Sternum
           1114. is the ascending limb of Henle returns to the glomerularregion of its own
        E nephron.
                a) Peritubular capillaries
                                               b) Juxtaglomerular apparatus
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ar membrane
                                                                                  b) Clitellum
                                                                                                                  c) Cochlea
                                                                                                                                                 d) Homeothermic
                  1116. Which is painful respiration?
                             a) Dyspnoea
                                                               b) Epiglottis
                                                                                                 c) Haemoglobin
                                                                                                                                         d) Herring-Breuer
                             reflex
                   1117. What is role of surfactant?
               t
                             a) Lowers the surface tension in the alveoli
               и
                             b) Prevents the lungs from collapsing
               b
                             c) It also prevents pulmonary oedema
               и
                             d) All of the above
                  1118. Three domain classification was proposed by
                             a) R.H. Whittaker
                                                                                               b) Carl Woese
                                                                                          d) Cavalier-Smith
                             c) Carl Woese & co - workers
                  1119. Match the following columns and select the correct option.
                                    Column - I
                                                                            Column - II
               а
                             (p) Pila
                                                                                     (i) Devil fish
               р
                             (g) Dentalium
                                                                        (ii) Chiton
                             (r) Chaetopleura
                                                                        (iii) Apple snail
                             (s) Octopus
                                                                        (iv) Tusk shell
                             a) p - (ii), q - (i), r - (iii), s - (iv)
                                                                                                  b) p - (iii), q - (iv), r - (ii), s - (i)
               а
                             c) p - (ii), q - (iv), r - (i), s - (iii)
                                                                                                 d) p - (i), q - (ii), r - (iii), s - (iv)
                   1120. How much time take to replace the liver cells?
                             a) 3 - 4 weeks
                                                                  b) 3 - 4 days
                                                                                                    c) 2 - 3 weeks
                                                                                                                                        d) 2 - 3 days
               e
                  1121. The consists of five bones called metatarsals.
                              a) Ischium
                                                              b) Acetabulum
                                                                                                      c) Tarsus
                                                                                                                                    d) Metatarsus
               d 1122. Concentration of urine depends upon which part of the nephron
                             a. Bowmans capsule - Isotonic
                             b. length of Henles loop - Hypertonic
                             c. P.C.T. - Isotonic
               Η
                             d. net work of capillaries arising from glomerulus- Hypotonic
               p 1123. The coelomic fluid of the earthworm is
                             a) Hydrostatic skeleton
                                                                                   b) Kalin
                                                                                                            c) Intestine
                                                                                                                                            d) Typhlosole
               е
                   1124. The olfactory lobes contain a small cavitycalled .
                             a) Olfactory ventricle
                                                                              b) Optic ventricles
               n
                                                                             d) Cerebellum
                             c) Rhombencephalon
               е
                  1125. The skin is ventrally.
               р
                             a) Chordata
                                                              b) Streamlined
                                                                                                    c) Dark green
                                                                                                                                         d) Pale
               h
               r 1126. Who complicated classification which based on many combined
               ocharacters, as opposed to earlier taxonomists.
                             a) Theophrastus
                                                                       b) John Ray
                                                                                                        c) Carolus Linnaeus
               m
                                                                                                                                                        d) Ernst
                             Haeckal
               а
               The 27 on Fibe poeticle of a grid legical entropies of the property of the second control of the second contro
     1115.
                              projects as a flat, expanded process called the .
                                                                                       b) Vertebro-chondral ribs
                              a) Vertebro-sternal ribs
                              c) Vertebral ribs
                                                                                         d) Acromion
                  1128. Fertilization and development occurs within the
                                                                                                            c) 2 - 3 weeks
                             a) Spermatophores
                                                                           b) Cocoons
                   1129. Which is made of smooth circular and longitudinal muscle fibres with a
               i
                             network of nerve cells and parasympathetic nerve fibres which controls
               C
                             peristalsis?
               и
                             a) Serosa
                                                          b) Muscularis
                                                                                               c) Submucosa
                                                                                                                                     d) Mucosa
                   1130. Scalavestibuliandscala tympani are filled with_
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) Stereocilia
        ) 1131. Each segment is covered by the dorsal
                a) Metathorax
                                   b) Tergum
                                                    c) Sternum
                                                                     d) Boat
        P 1132. Which is the total volume of air a person can inhale after normal expiration
                a) Vital capacity (VC)
                                                b) Inspiratory capacity (IC)
        е
                c) Expiratory capacity (EC)
                                               d) Total Lung Capacity (TLC)
        r
          1133. A regional epidermal swelling, form the cocoon
                a) Articular membrane
                                         b) Clitellum
                                                                               d)
                                                             c) Cochlead
        У
                Homeothermic
        m
          1134. consists of axon of preganglionic neu-ron and cell bodies of
                postganglionic neuron.
        h
                a) Preganglionic neuron
                                           b) Autonomic ganglion
                c) Postganglionic neuron
                                               d) Exteroceptors
          1135. Name the thin connective tissue sheath which covers the hepatic lobules.
                a) Gastric rugae
                                     b) Glissons capsule
                                                              c) Goblet cell
          1136. Which circulatory system found in annelids, cephalochordates and vertebrates?
        В
                a) Open type
                                b) Closed type
                                                      c) Both of these
                                                                            d) None of these
        а
          1137. a triple helix protein which allows for great tensile strength.
        S
                               b) Collagen
                                                c) Lacunae
                a) Acinus
                                                                 d) Macrophages
          1138. Which is the functional unit of the skele-tal muscle?
                                                  c) Meromyosin
                a) Sarcomere
                                    b) Actin
                                                                        d) G-actin
        <sup>a</sup> 1139. Name the secretions of the Brunners gland along with the secretions of the
                intestinal glands constitute.
                a) Enterokinase
                                     b) Succusentericus
                                                           c) Both of these d) None of the
               above
        m
        e 1140. A patients chart reveals that he has a cardiac output of 7500mL per
                minute and a stroke volume of 50 mL. What is his pulse rate (in beats /
        m
        b
               min)
                a) 50
                           b) 100
                                                   d) 400
                                      c) 150
        r
        a 1141. The repeatedly branched short fibres com-ing out of the cell body are called
                                             b) Dendrites
                a) Neurilemma
        n
                c) Nissls granules
                                            d) Axon hillock
        е
                     _are prokaryotic, their cells have no definite nucleus and DNA exists as a
          1142.
                circular chromosomes and do not have histones associated with it.
        C
                a) Archaea
                                b) Bacteria
                                                 c) Eukarya
                                                                  d) All of these
          1143. ___is a large, thin walled, on the dorsal side of the heart.
                a) Gaseous exchange
                                          b) Pericardium
        0
                                            d) Truncus arteriosus
                c) Sinus venosus
                    _extends up to the 7th abdominal segment.
        g
                a) Week
                                                   b) 45 minutes
        а
                c) Double ventral nerve cord
                                                 d) Sub-oesophageal ganglion
                     is a short tube that opens into the stomach.
                a) Maxillary teeth
                                     b) Vomerine teeth
                                                              c) Lower jaw
                                                                                 d) Oesophagus
          1146. What is the molecular weight of Haemoglobin?
               a) 66000 dalton
                                     b) 67000 dalton
                                                           c) 68000 dalton
                                                                                d) 69000 dalton
          1147. All consist of three main components namely fibres, ground substance and
          cells.
                a) Connective tissues
                                                 b) Fibres
                                                 d) Dense connective tissues
                c) Loose connective tissues
                      is a protein found in the cytoskel-eton and muscle cells.
                a) Sarcomere
                                    b) Actin
                                                  c) Meromyosin
                                                                        d) G-actin
          1149. Which is the chemical that causes addiction?
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а
                tem
                                                        d) All of theabove
                c) Nicotine
          1150. Whichis experienced during early stages of coronary heart disease?
                a) Cerebral infarction
                                          b) Angina pectoris
                                                                  c) Atheroma
                                                                                     d) Chest
        а
        b
                pain
        o 1151. The areas other than sensory and motor areas are called .
                a) Cerebrum
                                           b) Cerebral cortex
        и
        t
                                           d) Association areas
                c) Corpus callosum
          1152. Mention the function of lasso cells or colloblasts.
        8
                a) Respiration
                                   b) Capturing food
                                                           c) Circulation
                                                                              d) Excretion
        0
         1153.
                      are based on comparative analysis of the similarities and
        %
                dissimilarities of organisms.
                a) Taxonomical keys
                                          b) Museums
                c) Zoological parks
        0
                                          d) Marine parks
        f 1154. __mostly found in the ducts of sweat glands and mammary glands.
                a) Non keratinizedsquamous epithelium type
        t
                b) Stratified cuboidal epithelium Transitional Epithelium
        h
        е
        и
        n
        g
        С
        e
        b
        C
        а
        r
        d
        0
        а
        S
        C
        и
        l
        а
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b) Pennatula - Seafan
             war
             c) Adamsia - Sea pen
                                                         d) Gorgonia - Seaanemone
       1156. Which is the function of liver?
             a) Stores fat soluble vitamins and iron
             b) Detoxifies toxic substances
             c) Involves in the synthesis of non-essential amino acids and urea
             d) All of the above
       1157. The structure of the heart was described by
                                                            in 1706
             a) Raymond de viessens b) Cardiac muscle
                                                           c) Papillary muscles
                                                                                  d)300g
       1158. A coiled tube found in the inner ear .
             a) Articular membrane
                                        b) Clitellum
                                                         c) Cochlea
                                                                          d) Home
             othermic
       1159.
                    _category includes an assemblage of one or more related families
      which show few common features.
             a) Species
                            b) Genus
                                            c) Family
                                                          d) Order
       1160. In which the blood volume in the capillaries is high but the flow of blood is slow?
             a) Capillaries b) Veins
                                             c) Coronary artery d) Open circulatory
             system
                 is a typical cosmopolitaninsect.
       1161.
                            b) Cockroach
             a) Fishing
                                               c) Cursorial
                                                                d) Vectors
1155
       1162. Muscles are made of cells called
                                                  and constitute 40 - 50 percent
      Which of the following in contractly matched?
             a) Mesoderm
                                 b) Myocytes
                                                  c) Tendon
                                                                    d) Fascicle
       1163. Glomerular filtration rate, can activate JG cells to release renin which convertsa
             plasma protein, angiotensinogen to
     Ρ
             a) Diabetes insipidus
                                      b) Angiotension I
             c) Angiotension II
                                      d) Renin- Angiotensin- Aldosterone System
      1164. Which is sound regulating cords also called larynx or voice box?
                             b) Pneumothorax
                                                   c) Vocal cords
             a) Hypoxia
                                                                       d) Yawning
       1165. The reversal of electrical charge is called
             a) Sodium-Potassium pump b) Depolarization
                                                 d) All or none principle
             c) Threshold potential
       1166. Which character is not included in Mollusca?
             a) The space between the visceral mass and mantle,ctenidiaare present
             b) The Spider silk is five times stronger than steel
             c) These animals have a mesodermal endoskeleton of calcareous ossicles
     Ρ
             d) It has been suggested that a Boeing 747 could be stopped in flight
       1167. How does with oesophagus open to the pharynx?
                                  b) Gizzard
             a) Buccal cavity
                                                  c) Wind pipe
                                                                    d) All of the above
     t
       1168. The excretory cells that are found in platyhelminthes are
             a) Protonephridia
                                   b) Flame cells
                                                      c) Solenocytes
                                                                           d) All of these
     g
       are thermoreceptors that sense tem-perature.
     е
             a) Ruffini endings
                                b) Krause end bulbs
                                                               c) Melanocytes
                                                                                     d)
     s
             Vitiligo
       1170.
                  stores nutrients.
             a) Adipocytes
                               b) Adipose tissue
                                                      c) Brown fat
                                                                        d) White fat
       1171. Vital capacity is
                                              c. RV + ERV
            a. TV + IRV
                            b. TV+ERV
                                                                d. TV + IRV + ERV
       1172. What is the dental formula in cow?
             a) 2033/1023
                               b) 0033/3133
                                                   c) 3142/3143
                                                                      d) 2123/2123
       1173. When the potential across the axon mem-brane is more negative than the
             normal resting potential, the neuron is said to be in a state of
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а	on
	c. Repolarization d. Hypopolarization
	1174. Theof each side is joined posteriorly to form the dorsal aorta.
D	
е	1175. Find odd one out - Triploblastic animals.
р	a) Animals in which the developing embryo has three germinal layers
0	b) In these animalsendoderm gives rise to gastrodermis
l	c) Theyconsist of outer ectoderm ,inner endoderm
а	d) Most of the animals show organ system level of organisation
r	heophrastus b) John Ray c) Carolus Linnaeus d) Ernst
i	Haeckal 1177. Which are also called polymorphonuclear cells?
Z	a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
а	1178are phagocytic innature.
t	a) Haemocytes b) 13 chambers c) Alary muscles d) Pulsatile
i	vesicle
0	1179. Which is the character of fluid outside the cells?
n	a) Intercellular b) Intracellular c) Extracellular d) All of the above
,	1180. Long microvilli calledproject from the tip of the gustatory cells.
b	a) Gustatory receptor b) Papillae c) Gustatory hairs d) Skin
•	1181. Muscles are specialized tissues which are derived from the embryonic
ы	a) Mesoderm b) Myocytes c) Tendon d) Fascicle
П	1182. Which thrive in acidic environments and at high temperatures.
y	, r , r , r , , , , , , , , , , , , , ,
	1183in a coronary artery results in heart attack.
e r	
	1184created by the long loops of Henle of the JM nephrons which creates
0	
l	a) Counter current multiplier b) Atrial Natriuretic Peptide or factor
а	
r	1185. The volume of filtrate formed per day is around
i	a) 120-125mL/min b) Renal clearance
Z-	c) Tubular reabsorption d) 170-180 L perday
	1186.located in the upper lateral region of each orbit, secrete tears.
t	a) Interoceptors b) Proprioceptors
i	c)Sebaceous glands d) Lacrymal glands
	bules b) Mushroom shaped gland
	c) Seminal vesicles d) Gonapophyses
	1188is the bone ends of the knees and other freely movable joints wear
	away as a person ages. a) Atrophy b) Muscle pull c) Arthritis d) Osteoarthritis
	1189. Where is mixed bloodpresent?
	a) Capillaries b) Veins c) Coronary artery d) Open circulatory
	system
	1190. Evolutionary step produces a branching and all the members of the
	branchwould possess the derived character which will not be seen in
	organisms.
	a) Cladistics b) Cladogram c) Both of these d) None of the
	above
	1191. An earthworm is divided after the 17th segment region.
	a) Setigerous sac b) Pre clitellar c) Clitellar d) Post - clitellar
,	1,192. Four chambered heart is present in
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ydrate
                                      b) Protein
                                                       c) Lipid
                                                                     d) Vitamin
        ) 1194. Groups of cells that are similar in structure
                a) Tissues
                                 b) Organs
                                                 c) Living fabrics
                                                                       d) Organ systems
          1195. Which secrete substances involved in coagulation or clotting of blood?
                a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
        i
          1196. ____connects the hypothalamus with the pituitary gland.
                a) Hypothalamus
                                             b) Infundibulum
        а
        r
                c) Mammillary bodies
                                             d) Satiety centre
        d 1197. In 1956, _____were the first to use mouth to mouth resuscitation.
                a) William Harvey
                                        b) James Elam and Peter Safar
                                                                           c) CPR
                                                                                          d) Defibrillation
                     forms the posterior most part of the brain.
          1198.
                a) Rhombencephalon
                                           b) Cerebellum
                c) Pons varoli
                                              d) Medulla oblongata
          1199. Which constitute 1-3% of the total WBCs?
        n
                a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
          1200.
                     tissue is used tocovering.
        k
                a) Epithelial tissue
                                        b) Connective tissue
        е
                c) Muscle tissue
                                         d) Nervous tissue
           1201. What is the instrument used to measure the volume of air?
        \boldsymbol{c}
                a) Thermometer b) Spirometer
                                                           c) Sphygmomanometer
                                                                                         d)
                Stethoscope
           1202. Which is the outer layer, composed of collagen fbres?
                a) Lymphocytes b) Tunica intima c) Tunica media d) Tunica externa
          1203. Name the process of all the body tissues utilize the absorbed substance
        Ofor their activities and incorporate into their protoplasm.
                a) Digestion
                                  b) Absorption
                                                      c) Assimilation
                                                                            d) Egestion
        p
          1204. What is the technical term of the permanent teeth of four different types?
                                                                            d) Homodont
                a) Thecodont
                                    b) Diphyodont
                                                        c) Heterodont
           1205. The last 11th and 12th pairs of ribs are not connected ventrally. Therefore,
                they are called as floating ribsor
                a) Vertebro-sternal ribs
                                               b) Vertebro-chondral ribs
        d
                c) Vertebral ribs
                                                d) Acromion
           1206. The first ever human kidney transplant performed in India was done at the
                King Edward Memorial Hospital at Bombay in May 1965, using a cadaver donor in
        C
                a non-renal failure patient who had had
        r
                a) Peritubular capillaries
                                              b) Juxtaglomerular apparatus
        0
                                              d) Hypernephroma
                c) Peritubular capillaries
        C
        0
                       includes fat and the fibrous tissue of ligaments.
                                       b) Adhering junctions
                a) Tight junctions
                c) Gap junctions
                                        d) Connective tissue
          1208. A cockroach can live for a without its head.
                a) Week
                                                      b) 45 minutes
  1193
         c) Double ventral nerve cord d) Sub
Which is best storage of reserved food?
1209. Which cells are found in the lymphatics?
                                                   d) Sub-oesophageal ganglion
        а
                a) Lymphocytes b) Tunica intima
                                                       c) Tunica media
                                                                           d) Tunica externa
          1210. Which is the special flap of muscle which initiates the heart beat?
                a) Electrocardiogram
                                           b) Sinu Auricular node
                                                                                        d) T
        C
                wave
           1211. Which is a character of Chordata?
                a) Presence of elongated rod like notochord below the nerve cord and
        b
                above the alimentary canal
        0
                b) A dorsal hollow or tubular fluid filled nerve cord lies above the
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а		
n		
d		
b		
е		
l	c) Presence of pharyngeal gill slits or clefts in all chordates at some stage	
0	, , , ,	
W	, , , , , , , , , , , , , , , , , , ,	
	Speech and swallowing is	
t	, 5	
h	, - 3	
е	one - general man en gamente on tropic de de de tenging de d	
٨	particular species.	
d	a) Divida county	
o r	a) 7 km o) the above	iaan
S		uum
	1215assist in amplifying the croaking sound of frog.	
ī	a) Hind limbs b) Vocal sacs c) Nuptial pad d) Muscular sticky	
	tongue	
b	1216 . Which is the chief force that pushes water and solutes out of the blood and	
0		
d	a) Passive process b) 180l c) Glomerular pressure d)	
У	Ultrafiltration	
	1217. Triploblastic animals like echinoderms (e.g.,starfish) have five planes of	
W	- y	
a	, ·, · · · · · · · · · · · · · · ·	
l	c) Biradial symmetry d) Pentamerous radial symmetry	
l	1218. Enterokinase takes part in the conversion of	
	a) Pepsinogen into pepsin b) Trypsinogen into trypsin c) Protein into polypetide d) Caseinogen into casein	
	1219present as pair on both sides of intersegmental septa of the 19th segment.	
	a) Supra - pharyngeal ganglia b) Tufted nephridia	
	c) Integumentary nephridia d) Septal nephridia	
	c) meegamentary neprin rara	
	1220. The skin is on the dorsal side.	
	a) Chordata b) Streamlined c) Dark green d) Pale	
	1221forms the roof of the diencephalon.	
	a) Epithalamus b) Choroid plexus c) Pineal body d)	
	Melatonin	
	1222 . The nutritive fluid is deposited in theproduced by the gland cells of the	
	clitellum.	
	a) Spermatophores b) Cocoons c) 2 - 3 weeks d) Direct	
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1223
                ory nerve
                                    - ventral
         Which of the following pairings to estrect?
     a. S 1224. Muscle fibre has multiple oval nuclei just beneath its____.
                a) Epimysium
                                       b) Perimysium
        n
                c) Endomysium
                                       d) Sarcolemma
        s 1225. Inwhich, the blood from heart is taken to the lungs by pulmonary artery
                and the oxygenated blood from the lungs is emptied into the left auricle
        0
                by the pulmonary vein
        r
                a) Systemic circulation
                                            b) Pulmonary circulation
        У
                c) Vagus nerve
                                            d) Hypertension
        n
        е
        r
        V
        e
        а
        f
        е
        n
        t
        0
        t
        0
        n
        е
        а
        е
        r
        е
        n
        t
      c. S
        е
        n
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Monocytes
                                    d) Platelets
               is a thick walled on the ventral surface of the heart.
        1227.
             a) Gaseous exchange
                                        b) Pericardium
             c) Sinus venosus
                                         d) Truncus arteriosus
        1228. Which character is not included in Annelida?
             a) Development may be direct or indirect
             b) Development is direct or indirect and includes a trochophore larva
             c) Aquatic or terrestrial, free living but some areparasitic
             d) Triploblastic, bilaterally symmetrical, schizocoelomates
        1229. Which is a tuft of capillaries that filters protein?
             a) Aquaporins
                                                     b) Bowmans capsule hydrostatic
             pressure
             c) Glomerular capillary pressure
                                                  d) Glomerulus
                   may be due to the blockage of ear ca-nal with earwax.
             a) Tectorial membrane
                                           b) 20 times
                                             d) Conductive deafness
             c) Perilymph
        1231. Which is the volume of air remaining in the lungs after a forceful expiration?
             a) Tidal Volume (TV)
                                                         b) Inspiratory Reserve Volume (IRV)
1226
             c) Expiratory Reserve Volume (ERV)
                                                      d) Residual Volume (RV)
      In which blood reorne glyangues of stored glycost and platelets guide guide the
     <sup>a</sup> period of muscle fibre activity.
             a) Sarcoplasm
                                   b) Myoglobin
                                                       c) Glycosomes
                                                                             d) Anisotropic
             bands
        1233.
                 __found in the kidney tubules, ducts and secretory portions of small glands.
     g
             a) Simple epithelium
                                          b) Squamous epithelium
             c) Columnar epithelium
                                          d) Cuboidal epithelium
        1234. Which character is included in Echinodermata?
     n
             a) Reproduction is sexual and fertilization is external
             b) Development is indirect with free swimming bilaterally symmetrical larval
     0
             c) Exhibit autotomy with remarkable powers of regeneration
     C
             d) All of the above
     У
     t
       1235. The is solid.
     е
             a) Week
                                                  b) 45 minutes
     S
             c) Double ventral nerve cord
                                              d) Sub-oesophageal ganglion
        1236. The presence of on the apical surface of the absorptive cells.
     b
             a) Microvilli
                                          b) Goblet cell
             c) Ciliated epithelium
                                        d) Nonciliated epithelium type
       1237. Vasa efferentia arise from each
             a) Mesovarium
                                  b) Testis
                                                 c) Ovisacs
                                                                  d) Tadpole
       1238.provide information about position and movements of the body.
     m
          a) Interoceptors
                              b) Proprioceptors
     р
          C)Sebaceous glands
                                  d) Lacrymal glands
     h
     0
     c
     У
     t
     е
     C
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1239. Which acts as a reflex centre for vision and hearing?	
a) Emotional brain b) Brain stem c) Mid brain d) Corpora quadrigemina	
1240 . The are present in earthworm from the 10th segment onwards.	
a) Dor sal pores b) Coelomic fluid	
c) Female genital aperture d) Male genital apertures	
1241. How does the digestive system include?	
a) Alimentary canal b) Associated digestive glands	
c) Both of these d) None of the above	
1242 . is formed by the fusion of six segments and shows great mobility in all directions	5.
a) Hypognathous b) Orthopterus c) Hypopharynx d) Prothoracic	
1243tissue is used to control.	
a) Epithelial tissue b) Connective tissue	
c) Muscle tissue d) Nervous tissue	
1244. What are the blood vessels that carry blood away from the heart?	
a) Arteries b) KiloPascal (KPa) c) Small sphincter d) Anastomoses	
1245 Terminal branches of tracheal tubes are called	
a) Salivary glands b) Trachea c) Stigmata d) Tracheoles	
1246 Δ single glycogen molecule may contain	
a) Adenosine triphosphate b) Neuromuscular junction	
c) Skeletal Muscle Glycogen Analysis d) 5000 glucose units	
	ı
1247rapid muscle spasms occur in the muscles due to deficiency of parathyroic	_
hormone.	
a) Synovial joints or Diarthroses joints b) Myasthenia gravis	
c) Tetany d) Muscle fatigue	
1248. Every unit of classification regardless of its rank is	
a) Taxon b) Variety c) Species d) Strain	
1249. How does allergy produce?	
a) Carcinogens b) Allergens c) Pollutants d) All of the above	
1250 . Special cells on the coelomic wall of the intestine, calledare present.	
a) Nephrostome b) Chloragogen cells c) Monoecious d) Protanc	lrous
1251. What is the amount of dead space?	
a) 100ml b) 150ml c) 200ml d) 250ml	
1252 secretes bile which is stored in the gall bladder.	
a) Liver b) Bilobed c) Hydrochloric acid d) Chyme	
1253 . In which the capillary beds are the site for exchange of materials between blood a	nd
tissues?	
a) Capillaries b) Veins c) Coronary artery d) Open circulatory sys	tem
1254. The median thin layer of cranial cavity is	
a) Duramater b) Arachnoid mater c) Piamater d) Subarachnoid s	расе
1255. The innermost layer of cranial cavity is	•
a) Duramater b) Arachnoid mater c) Piamater d) Subarachnoid	d
space	-
1256. Which slimy material rich in mucus membrane lining the airway?	
a) Goblet cells b) Glycoprotein c) Epithelial cells d) All of the abo	11/0
1257. Exoskeleton of which phylum consists of chitinous cuticle?	776
a) Annelida b) porifera c) Arthropoda d) Echinodermata	
a) Annetida b) portjera c) Artinopoda d) Echinoderniata	
1258. Binomial Nomenclature was popularizedby	
a) Huxleyand Stricklandt b) Carolus Linnaeus	
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c) Charles Darwin d) Aristotle
1259. Archaea appears to have more in common with thethan the Bacteria.
a) Prokarya b) Eukarya c) Both of these d) None of the above
1260. Which constitute 28% of WBCs?
a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets 1261isHeme containing protein that binds molecular oxygen in muscle cells.
a) Myoglobin b) Sarcolemma
c) Sarcomere d) Ilium
1262 . If repolarization becomes more negative than the resting potential
a) Repolarisation b) Hyperpolarization
c) Lazy gates d) Nodes of Ranvier
1263 . Which are phagocytic in nature and appear in large numbers in and around the infected tissues?
a) Granulocyte b) Neutrophils c) Eosinophils d) Basophils
1264. Examine the diagram of the two cell types A and B given below and select the
correct option.
a. Cell-A is the rod cell found evenly all over retina
b. Cell-A is the cone cell more concentrated in the fovea centralis
b. Cell Alberta cone cell more concentrated in the joved centratis
A B
c. Cell-B is concerned with colour vision in bright light
d. Cell-A is sensitive to bright light intensities
1265. In some animals, cells that perform similar functions are aggregated to form tissues.
a) Acellular level Organisation b) Cellular level Organisation
c) Tissue level Organisation d) Organ levelOrganisation 1266 . Which character is not included in Sponges?
a) They possess a water transport system or canal system
b) Water enters through minute pores called ostialining the body wall
c) Cnidoblasts are used for anchorage, defense, and to capture the prey
d) Water enters into a central cavity (spongocoel) and goes out through the osculum
1267. The 8th, 9th and 10th pairs of ribs do not articulate directly with the sternum but
joined with the cartilaginous part of the seventh rib are called false ribs or a) Vertebro-sternal ribs b) Vertebro-chondral ribs
c) Vertebral ribs d) Acromion
1268. Which does produce excitation through depolarisation of the heart?
a) Bundle of His b) Purkinje fibres c) Pacemaker d) Stethoscope
1269. Kidneys arein frog.
a) Nitrogenous waste b) Mesonephric c) Ureotelic d) Urinary bladder
1270. The symmetry exhibited in cnidarians is a) Radial b) Bilateral c) Pentamerous radial d) Asymmetrical
a, hadrat D, Dhaterat e, remainerous radiat a, Asymmetricat
1271. Which is the ventricles begins to relax, pressure in the arteries exceeds ventricular
pressure, resulting in the closure of the semilunar valves?
a) Ventricular diastole b) Cardiac output

1272. Which of the follo a) Insects b) 1273forms the mois a) Non keratinized b) Stratified cuboi c) Stratified colum	Birds c) Angiosp t lining of the oesopha squamous epithelium dal epithelium nar epithelium	t number of spec perms d) F gus, mouth, conj	Fungi		
d) Transitional Epi 1274. Which is an incre					
a) Tachycardia	b) Bradycardia	c) Ventricular	diastole	d) Atrial systole	
1275. How is circulatory	system seen in annel	ids, cephalochor	dates and ve	ertebrates?	
a) The blood rema	ins filled in tissue spa	ces due to the a	absence of b	lood capillaries	
b) The blood is circ c) Both of these d) None of these	ulated through blood	vessels of varyin	ng diameters	5	
1276. Whichis seen in A					
a) Haemocoel c) Muscular chambi	b) ered heart d) Tv	Closed circulate	ory system eart		
1277. A thin walled unp	aired <u></u> is present.				
	te b) Mesoneph		otelic	d) Urinarybladder	
1278 . Mention respirato	Book gills c) Bo	imutus. ook lungs – a	d) COLD		
a) Apnoea b) Book gills c) Book lungs d) COLD 1279. Which is the outermost layer of stomach?					
a) Serosa b) Muscularis c) Submucosa d) Mucosa 1280have collection of preserved plants and animals for study and ready reference.					
	tion of preserved plan vs b) Museums				
1281. The bundle of m		c) 200103N	cut pui ks	a) marme parks	
a. Myofibrils	b. fascicle c. s		•		
1282conveys nerve	impulses from auton	omic ganglia to	visceral ef	fector organs.	
a) Preganglionic n	euron b) Auto	nomic ganglion			
c) Postgangtionic . 1283. The caloric value	neuron d) Exte	roceptors			
a) 4.1 b) 9.45	-	1) 9.1			
1284decline or ce	,	,	in the condi	ition.	
	o) Muscle pull — c			thritis	
1285. The plasma mem		eu-ron is called	<u> </u> •		
,	b) Dendrites	-1.			
c) Nissis granules 1286. All of the follow	d) Axon hillo		hoath ovco	nt	
	on of nerveimpulses		oneuth exce	ρι	
	er forming gaps along				
	y output for nerve in		on		
d. Saltatory condu	ction of action poter	ntial			
1287 described sp	ecies as a group of mo	rphologically sin	nilar organi:	sms arising from a	
common ancestor.		h) Suctoma natio	rao		
a) Origin of Species		b) Systema natu Tautonymy	iue		
1288. What taxonomic			bout a taxo	n?	
	b) Herbarium	•	d) Monogr		

1289 . The cells of theare not capable of independent existence	and exhibit division
of labour.	
a) Protozoans b) Metazoans c) Both of these	
1290or aerobic activities increase the breathing and heart r	ate.
a) Rheumatoid arthritis b) Gouty arthritis or gout	
c) Osteoporosis d) Endurance	
1291. Asthma is caused due to	
a. bleeding in pleural cavity. b. infection of nose	
c. damage of diaphragm. a. infection of lungs	
1292. At any given time there is more blood in the venous system than	
system. Which of the following features of the veins allows this	
a. relative lack of smooth muscles b. presence of valv	
	othelial lining
1293 . Where is found hydrostatic skeleton in the following character	
a) Acoelom b) Pseudocoelom c) Eucoelom d)	Enterocoelom
1294. The crop is followed by the gizzard or a) Gynovalvular plates b) Foregut c) Crop d) P	
a) Gynovalvular plates b) Foregut c) Crop d) P	Proventriculus
1295body temperature varies with the varying environmental t	
a) Rana hexadactyla b) Amphibian c) Anura d	
1296 . Which is expressed the ratio of red blood cells to blood plasmo	
a) Erythropoietin b) Erythropoiesis c)Haematocrit d) Granulocy	/te
1297 . Where is present pneumotaxic centre in the brain?	
a) Cerebrum b) Cerebellum c) Pons varoli d) /	Medulla oblongata
1298. In Pheretima locomotion occurs with help of	
	nal muscles andsetae
c) circular, longitudinal muscles and setae d) parapodia	
1299 aimed at publishing a complete system of nature, which in	ncluded works on
mammals, reptiles, birds, fishes and insects.	
a) Theophrastus b) John Ray c) Carolus Linnaeus	
1300 . The location and numbers of malpighian tubules in Periplanet	a.
a) At the junction of midgut and hindgut, about 150.	
b) At the junction of foregut and midgut, about 150.	
c) Surrounding gizzard, eight.	
d) At the junction of colon and rectum, eight.	
1301. Which is the respiratory organs of Scorpions and most spiders	
a) Apnoea b) Book gills c) Book lungs d) COL	D
1302nerves are 10 pairs in frog.	
a) Foramen magnum b) Spinal cord c) Cranial	•
1303. The ionic gradient across the resting mem-brane is maintain	ned by ATP driven
a) Sodium-Potassium pump b) Depolarization	
c) Threshold potential d) All or none principle	
1304 . What is the effect of suffocation on the skin?	
a) Turns bluish b) Turns reddish c) Turns yellowish	d) Turns white
1305. Animals such as sponges lacktissue.	
a) nervous b) muscle c) Both of these d) None	e of theabove
1306 have a hard and non-pliable ground substance rich in calciu	ım salts.
a) Elastic connective tissue b) Specialised connective tiss	ues
c) Cartilages d) Bones	
1307. The brain but separated from the arach-noid mater by the	•
a) Duramater b) Arachnoid mater c) Piamater	d) Subarachnoid
space '	•
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1308. Theconsists of plasma,RBC,WBC and platelets.
a) Systemic trunk b) Pulmo-cutaneous trunk c) Carotid d) Blood
1309. Molecular taxonomic tool consists of
a) DNA and RNA b) Mitochondria and Endocplamic reticulum
c) Cell wall and Membrane proteins d) All the above
1310are freely movable joints, the articu-lating bones are seperated by a cavity.
a) Synovial joints or Diarthroses joints b) Myasthenia gravis
c) Tetany d) Muscle fatigue
1311cells get specialized forsecretion.
a) Pseudo-stratified epithelial b) Glandular epithelium
c) Goblet cells d) Salivary gland
1312. What is the activitivy of the gastro-intestinal tract are carried out?
a) Neural b) Hormonal control c) Both of these d) None of the above
1313. The Oxygen Dissociation Curve is
a. sigmoid b. straight line c. curved d. rectangular hyperbola
1314. Match the following.
A) Epigeics - i) First segment
B) Anecics - ii) Overhanging the mouth
C) Endogeics - iii) Last segment
D) Peristomium - iv) Octochaetonathurstoni
E) Prostomium - v) Lampito mauritii
F) Pygidium - vi) Perionyx excavatus
a) A - i), B - ii), C - iii), D - iv), E - v), F - vi)
b) A - vi), B - v), C - iv), D - iii), E - ii), F - i)
c) A-v), B-vi), C-iii), D-iv), E-i), F-ii)
d) A - vi), B - v), C - iv), D - i), E - ii), F - iii)
1315. Renal stones can be removed by techniques like .
a) Uremia b) Renal calculi
c) Pyleothotomy or lithotripsy d) Glomerulo nephritis
1316 . The inner osteogenic layer consists of
a) Metaphysis b) Periosteum c) Osteoblasts d) Endosteum
1317. The practice of naming the animals in which the generic name and species name are
the same, is called
a) Binomial Nomenclature b) Trinomial Nomenclature
c) Tautonymy d) All of the above
1318. In males, thelies at the hind end of the abdomen.
a) Genital pouch b) Gonapophysis c) Anal styles d) Anal cerci
1319 is made of a single layer of cube like cells.
a) Simple epithelium b) Squamous epithelium
c) Columnar epithelium d) Cuboidal epithelium
1320 neuron takes the sensory impulse to the grey (afferent) matter of the spinal cord.
a) Sensory Receptor b) Sensory Neuron
c) Interneurons d) Motor Neuron
1321 is similar to areolar tissue in structure and function.
a) Specialized connective tissues b) Areolar connective tissue
c) Tissue fluid d) Adipose tissue
1322 helps in the grinding of the food particles.
a) Gizzard b) Enteric caecae c) Malphigian tubules d) Hindgut
1323is the father of modern taxonomy.
a) Carolus Linnaeus b) Aristotle
c) Augustin Pyramus de Candole d) Charles Darwin
1324 exerts the greatest control over the bodys responsiveness.
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	a) Cardiac muscle tissue b) Parkinsons disease c) Alzheimers disease d) Nervous tissue
1225	
	. The efferent arteriole serving the juxta medullary nephron forms bundles of long
straig	ht vessel called
	a) Vasa recta b) Cortical nephrons
	c) Ornithine cycle d) Glomerular filtration
1326	. The prostate gland serves to cement the spermatozoa into bundles
	a) Spermatophores b) Cocoons c) 2 - 3 weeks d) Direct
1327	. They do not possess membrane bound organelles except for ribosome.
	a) 70S type Bacteria b) 80S type Bacteria
	c) Both of these d) All of the above
1328	. Who was considered as English Naturalist?
	a) Theophrastus b) John Ray
	c) Carolus Linnaeus d) Ernst Haeckal
1329	. Which are also called thrombocytes that are produced from megakaryocytes and lack
	nuclei?
	a) Agranulocytes b) Lymphocyte c) Monocytes d) Platelets
1330	. INOTAXA is an electronic resource for digital images includes in
	a) Neo taxonomical tool b) Ethology of taxonomical tool
	c) e - taxonomic resource d) All of the above
1331	. Frogs are called organisms.
	a) Nitrogenous waste b) Mesonephric c)Ureotelic d) Urinary bladder
1332	facilitate the cells to communicate with each other.
	a) Tight junctions b) Adhering junctions
	c) Gap junctions d) Connective tissue
1333	. This is used to identify an individual from a sample of DNA by looking at unique
1555	patterns in their DNA.
	a) DNA barcoding b) DNA hybridization
	c) DNA fingerprinting d) All of theabove
1331	. Male bears a pair of short and slenderin the 9th sternum.
1334	a) Genital pouch b) Gonapophysis c) Anal styles d) Anal cerci
1225	. Which is the function of liver?
1333	a) Destroys aging and defective blood cells
	b) Stores glucose in the form of glycogen or disperses glucose
	c) Stores fat soluble vitamins and iron
4224	d) All of the above
1336	. The protein present in the thick filament is
	a. myosin b. actin c. pectin d. leucin
1337	. Theis the superior flaring portion of the hip bone.
	a) Myoglobin b) Sarcolemma c) Sarcomere d) Ilium
1338.	supply the renal tissue, involved in exchanges with the fluid in the tubular region.
	a) Peritubular capillaries b) Juxtaglomerular apparatus
	c) Peritubular capillaries d) Hypernephroma
1339	. Which is characterized by excessive thirst and excretion of large quantities of dilute
	urine resulting in dehydration and fall in blood pressure?
	a) Diabetes insipidus b) Angiotension I
	c) Angiotension II d) Renin- Angiotensin- Aldosterone System
1340.	During inspiration, the diaphragm
	a. expands. b. unchanged
	c. relaxes to become domed-shaped. d. contracts and flattens
	F