SURYA TRB COACHING CENTRE, MADURAI



(a place... You try to achieve) Cell: 81246 02428, 94435 64713, 75983 02428 UG TRB EXAM 2024 - ZOOLOGY



UGTRB FINAL EXAM QUESTION & TENTATIVE KEY (04.02.2024)

31.	An example of Ostracoderm
	B) Cephalaspis
32.	How many pairs of gills slits present <i>petromyzon</i> ?
	D) 7 Pairs
33.	Mermaid's purses are seen in
	A) Scyllium
34.	Foam nests are produced by
	B) Rhacophorus schlegelli
35.	The eggs are carried in vocal sacs by
	C) Rhinoderma
36.	Heart of Calotes is divided into
	D) Four
37.	The main substance of the lungs of <i>Columba livia</i> is formed by the network of
	C) Air sacs
38.	The poison of <i>Naja naja</i> is
	C) Neurotoxin
39.	Membranes labyrinth is seen in rabbit's which part
	C) Inner Ear
40.	The example for the egg laying mammals
	C) Ornithorhynchus

<i>1</i> 1	The human infective steep of Blazar adiam vivar is which and
41.	The human infective stage of <i>Plasmodium vivax</i> is which one
	D) Sporozoite
42.	The body cavity found in <i>Ascaris</i>
	D) Pseodocoel
43.	Larva of <i>Unio</i> is
	B) Glochidium
44.	Bitting and chewing type of mouth parts is found in
	A) Cockroach
45.	Intermediate host of malarial parasite is
	A) Man
46.	The excretoey organ of <i>Peripatus</i> is
	C) Nephridia
47.	The brown pigments of molluscan animal is used for ink preparation
	B) Cuttle Fish
48.	Which is the chemoreceptor organ of Pila?
	A) Osphradium
49.	Paramecium is covered by a thin elastic membrane called
	D) Pellicle
50.	In earthworm, a pair of genital papillae are present in which segments?
	A) Between XVII and XIX segments
51.	The soft membrane surrounding the mouth is starfish is called
	B) Peristome
52.	The nine small vesicle in the water vascular system in <i>Echinoderm</i> is called
	A) Tiedemann's bodies
53.	In <i>Leucosolenia</i> most common method of Asexual reproduction is
	D) Budding
	D) Dudding

54.	Fasiola hepatica belongs to the class
	C) Trematoda
55.	Enterobius vermicularisis commonly known as
	B) Pin worm
56.	Which of the following is not <i>Amniota</i> ?
	A) Amphibia
57.	Post anal tail is present in
	C) Branchiostoma
58.	Limbless amphibians
	A) Apoda
59.	Teeth occur at the floor of frogs buccal cavity is
	A) Vomerine
60.	Sexually mature but morphologically immature larval stage of salamander
	B) Axolotl
61.	In Cell cycle, DNA synthesis is takes place during which phase?
	C) S phase
62.	Tumour made principally of connective tissue cells of mesodermal origin is
	known as what?
	D) Sarcoma
63.	The early embryonic stem cells are
	A) Pluripotent
64.	In Spermatozoa, Centrioles give rice to which part?
	C) Tail
65.	Schiff's Reagent is used to determine
	D) Aldehyde group

66.	Name two transmembrane glycoproteins present in Rough Endoplasmic
	Reticulum.
	B) Ribophorin I and Ribophorin II
67.	The transport protein found in outer membrane of Mitochondria is known as
	what?
	C) Porin
68.	Ion exchange between two adjacent cell done through
	D) Gap junctions
69.	Sarcoplasmic reticulamis found in which muscle?
	C) Striated muscle
70.	Which one of the following is the specialized modification of plasma
	membrane?
	B) Desmosome
71.	Which electron dense substance is used for Negative staining?
	B) Phosphotungstic acid
72.	In SAT chromosomes, SAT stands for
	B) Sine Acid Thymonucleinico
73.	Paring of homologous chromosomes and formation of synaptonemal complex
	occur during stage of Meiosis.
	C) Zygonema
74.	Astral Mitosis occurs in
	A) Animals and Higher plants
75.	Phenylketonuria is characterized by the accumulation of in the blood?
	B) Phenylalanine
76.	The inheritance of eye colour in human beings follow what law of Mendel?
	A) Law of secregation

77.	In Beta galactosidase synthesis of RNA polymerase act as an
	B) Promotor
78.	Effect of UV radiation on DNA is
	C) Thymine dimer
79.	The female with 44 autosome and only one X chromosome exhibit
	syndrome.
	C) Turner's syndrome
80.	The failure of separation of homologous chromosomes during cell division is
	known as
	D) Non - disjunction
81.	How many grams of Nitrogens are excreted per day through urine?
	C) 10 gms
82.	is a short double standard DNA that has one blunt end and one
	cohesive end.
	C) Adaptor
83.	Somatomedin – A is used to fix element in the cartilages.
	B) Calcium
84.	Connective tissue layer that surrounds the cortex in the ovary is known as
	A) Tunica albuginea
85.	Which one of the following changes does not occur during cleavage?
	A) Increase in the total volume of the embryo
86.	The fate map of the embryo is prepared in which stage?
	C) Gastrula
87.	The cartilaginous rod columella auris originates from
	A) Ectoderm

88.	This type of induction causes the embryo cells to undergo self-transformation or
	differentiation.
	C) Endogenous Induction
89.	Insemination in human is performed within of egg collection during
	invitro fertilization.
	D) 3 – 12 Hours
90.	Which one the following hormone converts the ovarian follicle into corpus
	luteum and stimulates the secretion of progesterone ?
	A) Lutenizing hormone
91.	Which statements is false in accordance with hyperthyroidism?
	C) Reduced iodine intake
92.	Which of the following is not used in microphagic feeding mechanism ?
	B) Tentacles
93.	The components involved in reflex action?
	A) Reflex Arc
94.	The period when no response can be evoked by a stimulus in a neuron is called as
	C) Refractory period
95.	The main pacemaker of the heart is
	A) Sinu Auricular node
96.	The muscle protein which is chemically similar to haemoglobin is
	C) Myoglobin
97.	The metallic atoms present in the haemocyanin is
	C) Copper
98.	Bone present in the middle are of the reptiles
	A) Columella auris

99.	Insufficient secretion of adrenal cortex causes
	B) Addison's syndrome
100.	Which type of gene therapy is used for liver transplantation?
	D) Ex-vivo Gene therapy
101.	Which one the following is a VAM biofertilizer ?
	C) Nostoc
102.	Maltose is composed of
	C) Two alpha – D glucose
103.	From which bacteria the Tag polymerase enzyme is obtained?
	B) Thermus aquatics
104.	Amino acids can be reduced to the amino alcohols by
	B) Lithium aluminum hydride
105.	Small circular double standard extra chromosomal DNA present in Bacteria is
	known as
	A) Plasmid
106.	In PCR , primer annealing occurs at temperature.
	A) 72° C
107.	Entrapping enzymes in a semipermeable membrane is called as
	C) Enzyme entrapment
108.	The use of living microbes to degrade environmental pollutants is known as
	B) Bioremediation
109.	HMP shunt is also called as
	A) Pentose phosphate pathway
110.	Protease is used to
	A) Improve texture and volume of the products

111.	The increased transcriptional activity of chromosomes during oogenesis is
	called as
	B) Transcriptional amplipification
112.	Epibolic morphogenetic movement occurs only in which of the following?
	D) Ectodermal blastomeres
113.	Which part of the developing embryo in chick form the allantois?
	B) Endoderm of hind gut
114.	The process of lactation in milk ejection process is aphenomenon.
	A) Neuro endocrine reflex
115.	In Grasshopper the head of many sperms associated to form
	A) Sperm Boat
116.	State the vital stain from the option given below?
	B) Eosin
117.	The development of vegetal pole structure needs an environment where
	B) Oxidative phosphorylation occurs
118.	Soil humus is composed of
	A) Carbon and Nitrogen
119.	Grunion Fish is an example of
	A) Circadian Rhythm
120.	The relationship between Hermit crab and sea anemone is
	C) Mutalism
121.	The excess of salts in body fluids of marine fishes are eliminated by
	D) Chloride secretory cells
122.	Which of the following is the correct sequence of vertical summer stratification
	of a lake?
	B) Epilimnion → Thermocline → Hypolimnion

123.	The marine animals converts the CO ₂ into what? A) Calcium carbonate
124.	The most important factor controlling the primary productivity in ocean is
	C) Depth of the ocean
125.	When the ecosystem contains lesser number of producers and more number of consumers, that pyramid is referred as
	C) Inverted pyramid
126.	The biomes which are characterized by the absence of trees are known to be
	C) Tundra Biomes
127.	The ecosystem, which have intermediate rainfall between that of desert and forest is referred as
	B) Grassland ecosystem
128.	Genetic drift concept was proposed by whom?
	C) Sewall Wright
129.	Which one of the following is not an example of Batesian mimicry?
	A) Krait and Lycodon
130.	Which among the following is not an example of convergent evolution?
	D) Horse and Antelope
131.	Which is not required for Polymerase Chain Reaction (PCR)?
	B) Ligase
132.	If DNA damage is not repaired , then it will lead to
	D) Mutation

133.	Transposons are otherwise called as
	B) Jumping genes
134.	Erythroblastosis foetalis in Rh ⁺ babies is due to
	B) Rh ⁺ Father and Rh ⁻ Mother
135.	The hormone plays an important role in heat production for a prolonged duration
	B) Thyroxine
136.	Example for the amine neurotransmitter
	C) Dopamine
137.	Low potassium ion concentration in the body fluids sometimes leads to
	B) Muscle paralysis
138.	The serious eye disease
	B) Glaucoma
139.	Which one regulates the dilution of urine?
	A) ADH
140.	Thyrocalcitonin is a
	B) Proteinous hormones
141.	Which of the following is a post zygotic type of reproductive isolation?
	C) Hybrid breakdown isolation
142.	Which among the following is not a main factor influencing speciation ?
	D) Adaptation

143.	are pest of domestic animals such as cattle, sheep and goats.
	A) Horse flies
144.	Which insecticidal properties were first described by CIBA?
	C) Dichlorvos
145.	The number of wax glands found in worker honeybees is
	A) Four sets
146.	The most popular variety of silk in India is
	B) Mulberry silk
147.	The main protein present in silk filament
	B) Fibroin
148.	Which one of the following is Pulse Beetle ?
	C) Callosobruchus maculatus
149.	Which part of the body of Queen Honeybee is modified as a sting?
	D) Ovi Positor
150.	The 'White ear' disease in Rice is caused by the major insect pest.
	A) Scirphophaga incertulas
151.	The bunchy top virus is transmitted through an insect vector called Banana
	Aphid A) Pentalonia nigronervosa
152.	Highly toxic insecticides are identified by the colour on the label of test animals.
	B) Bright yellow

153.	Vent sexing is a method of sexing in poultry followed in
	B) Japan
154.	Addition of water and skim milk powder whole milk refers to
	C) Toned milk
155.	In prawns , the fertilized eggs hatch into a larvae called
	A) Naplius
156.	The hen's egg contain very small amount of
	B) Carbohydrates
157.	In poultry , the tick fever is caused by the tick known as
	B) Spirochaetosis
158.	Best nucleus is formed by the shell of mollusks with heavy deposition of
	C) Calcarious substances
159.	Which of the following female fish guards the eggs by keeping them in the mouth?
	C) Tilapia nilotia
160.	Which one the following animal exhibits a dual life? the adult live in the river, and larvae and juveniles live in the estuaries
	C) Salmo trutta fario
161.	The form of immunoglobulin produced by the genetically different individuals is called
	B) Idio type
162.	During the blood transfusion the isohaemoagglutins of the recipient react with the donor's
	A) RBC

163.	Cultivation of bacteria in a liquid medium is calledculture.
	B) Broth
164.	Diphtheria is a disease caused by
	A) Corynebacterium sp.
165.	is a viral disease affecting parotid glands of children.
	C) Mumps
166.	In leather processing are used to remove fat and flesh from the skin
	D) Bacteria
167.	For mass sterilization of prepacked items such as syringes radiation is used
	D) Gamma rays
168.	Epstein - barr virus is a
	B) Herpes virus
169.	Which of the following virus is used as biopesticide?
	D) Baculo virus
170.	Based on the five kingdom concept, salmonella belongs to kingdom
	A) Monera
171.	The clarified butter is
	D) Ghee
172.	To remove the toxic pollutants the harvested biomass spiruline is washed with
	C) Alkaline water

173.	Female chick can be identified by seeing cloaca is called as
	C) Vent sexing
174.	Paneer is a soft cheese
	D) Coagulated
175.	Seed for oyster culture is
	C) Spat
176.	The most common disease caused by a filter passing virus is
	B) Ranikhet disease
177.	Which of the following is not involved in antigen presentation ?
	D) Nature killer cells
178.	In birds the B cell production and maturation take place in
	D) Bursa of Fabricious
179.	In ELISA the enzyme specific to antigen is covalently linked to
	C) Anitibody
180.	The large granulocytes produce cytotoxic reactions against malignant cells
	without surface marker for T Cell are
	B) Nature killer cells.

*****_TENTATIVE ANSWER KEY****