

+1 Bio-Zoology book back One marks test - 3

- Which of the following is not present in same rank?
a. Primata b. Orthoptera c. Diptera d. Insecta
- What taxonomic aid gives comprehensive information about a taxon?
a. Taxonomic Key b. Herbarium c. Flora d. Monograph
- Who coined the term biodiversity?
a. Walter Rosen b. AG Tansley c. Aristotle d. AP de Candole
- Which of the following animals has a true coelom ?
a. *Ascaris* b. *Pheretima* c. *Sycon* d. *Taenia solium*
- Metameric segmentation is the main feature of
a. Annelida b. Echinodermata c. Arthropoda d. Coelenterata
- Which of the following have the highest number of species in nature?
a. Insects b. Birds c. Angiosperms d. Fungi
- The limbless amphibian is
a. Ichthyophis b. Hyla c. Rana d. Salamander
- Four chambered heart is present in
a. Lizard b. Snake c. Scorpion d. Crocodile
- The head region of Cockroach _____ pairs of _____ and _____ shaped eyes occur.
a. One pair, sessile compound and kidney shaped
b. Two pairs, stalked compound and round shaped
c. Many pairs, sessile simple and kidney shaped
d. Many pairs, stalked compound and kidney shaped
- Choose the wrong statement among the following:
a. In earthworm, a pair of 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 circular muscles and longitudinal muscles.
d. Typhlosole is part of the intestine of earthworm.
- Which of the following are the sense organs of Cockroach?
a. Antennae, compound eyes, maxillary palps, anal cerci
b. Antennae, compound eye, maxillary palps and tegmina
c. Antennae, ommatidia, maxillary palps, sternum and anal style
d. Antennae, eyes, maxillary palps, tarsus of walking legs and coxa
- Which of the following hormones stimulate the production of pancreatic juice and bicarbonate?
a. Angiotensin and epinephrine b. Gastrin and insulin
c. Cholecystokinin and secretin d. Insulin and glucagon
- Absorption of glycerol, fatty acids and monoglycerides takes place by
a. Lymph vessels within villi b. Walls of stomach
c. Colon d. Capillaries within villi
- Match column I with column II and choose the correct option

Column – I	Column – II	Column – I	Column – II
(P) Lipase	(i) Starch	(Q) Renin	(iii) Protein
(R) Pepsin	(ii) Cassein	(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)	

15. Intercostal muscles are found between the
 a. vertebral column b. sternum c. ribs d. glottis
16. When 1500 mL air is in the lungs, it is called
 a. vital capacity b. tidal volume
 c. residual volume d. inspiratory reserve volume
17. After a long deep breath, we do not respire for some seconds due to
 a. more CO₂ in the blood b. more O₂ in the blood
 c. less CO₂ in the blood d. less O₂ in the blood
18. 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.C in alveolus
 (R) Pneumonia (iii) Allergy

- a. P = iii, Q = ii, R = I b. P = iii, Q = i, R = ii
 c. P = ii, Q = iii, R = I d. P = ii, Q = i, R = iii

19. Make the correct pairs.

Column-I**Column-II**

- (P) Tidal volume i. 1000 to 1100 ml
 (Q) Residual volume ii. 500 ml
 (R) Expiratory reserve volume iii. 2500 to 3000 ml
 (S) Inspiratory reserve volume iv. 1100 to 1200 ml
 (a) P – ii , Q – iv , R – i , S – iii (b) P – iii , Q – ii , R – iv , S – i
 (c) P – ii , Q – iv , R – iii , S – I (d) P – iii , Q – iv , R – i , S – ii

20. Which one of the following plasma proteins is involved in the coagulation of blood?
 a. Globulin b. Fibrinogen c. Albumin d. Serum amylase

21. Lymph is colourless because

- a. WBC are absent b. WBC are present
 c. Haemoglobin is absent d. RBC are absent

22. Erythroblastosis foetalis is due to the destruction of

- a. Foetal RBCs b. Foetus suffers from atherosclerosis
 c. Foetal WBCs d. Foetus suffers from mianmata

23. Which of these functions can be carried out by a matured red blood cell?

- a. Protein synthesis b. Cell division c. Lipid synthesis d. Active transport

13. A patient's 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 / min)

- a. 50 b. 100 c. 150 d. 400

24. Identify the wrong match

- a. Bowman's capsule - Glomerular filtration
 b. DCT - Absorption of glucose
 c. Henle's loop - Concentration of urine
 d. PCT - Absorption of Na⁺ and K⁺ ions

25. Malpighian tubules remove excretory products from

- a. mouth b. oesophagus c. haemolymph d. alimentary canal

26. Muscles are derived from

- a. ectoderm b. mesoderm c. endoderm d. neuro ectoderm

27. Muscles are formed by
 a. myocytes b. leucocytes c. osteocytes d. lymphocytes
28. The functional unit of a muscle fibre is
 a. sarcomere b. sarcoplasm c. myosin d. actin
29. The protein present in the thick filament is
 a. myosin b. actin c. pectin d. leucin
30. 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)
31. 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 impermeable 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 gradients 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.
32. Which of the following statement concerning the somatic division of the peripheral neural system is incorrect?
 a. Its pathways innervate skeletal muscles b. Its pathways are usually voluntary
 c. Some of its pathways are referred to as reflex arcs
 d. Its pathways always involve four neurons
33. The maintenance of constant internal environment is referred as
 a. Regulation b. homeostasis c. co-ordination d. hormonal control
34. Which of the following statement about sex hormones is correct?
 a. Testosterone is produced by Leydig cells under the influence of luteinizing hormone
 b. Progesterone is secreted by corpus luteum and softens pelvic ligaments during child birth
 c. Oestrogen is secreted by both Sertoli cells and corpus luteum
 d. Progesterone produced by corpus luteum is biologically different from the one produced by placenta.
35. Hypersecretion of GH in children leads to
 a. Cretinism b. Gigantism c. Graves disease d. Tetany
36. Spermatogenesis in mammalian testes is controlled by
 a. Luteinising hormone b. Follicle stimulating hormone
 c. FSH and prolactin d. GH and prolactin
37. The bundle of muscle fibres is called
 a. Myofibrils b. fascicle c. sarcomere d. sarcoplasm
38. The pigment present in the muscle fibre to store oxygen is
 a. myoglobin b. troponin c. myosin d. actin

39. An unconscious patient is rushed into the emergency room and needs a fast blood transfusion. Because there is no time to check 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⁻
40. 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
41. Enterokinase takes part in the conversion of
- a. Pepsinogen into pepsin b. Trypsinogen into trypsin
c. Protein into polypeptide d. Caseinogen into casein
42. Non-shivering thermogenesis in neonates produces heat through
- a. White fat b. Brown fat c. Yellow fat d. Colourless fat
43. Which of the following are the sense organs of Cockroach?
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b. Antennae, compound eye, maxillary palps and tegmina
c. Antennae, ommatidia, maxillary palps, sternum and anal style
d. Antennae, eyes, maxillary palps, tarsus of walking legs and coxa
44. The structure which connects the hypothalamus with anterior lobe of pituitary gland is the
- a. Dendrites of neuro hypophysis b. Axons of neuro hypophysis
c. Bands of white fibers from cerebellar region d. Hypophysial portal system
45. Which one of the following statement is correct
- a. Calcitonin and thyroxin are thyroid hormones
b. Pepsin and prolactin are secreted in stomach
c. Secretin and rhodopsin are polypeptide hormones
d. Cortisol and aldosterone are steroid hormones
46. Which of the given option shows all wrong statements for thyroid gland
- Statements**
- (i) It inhibits process of RBC formation.
(ii) It helps in maintenance of water and electrolytes
(iii) Its more secretion can reduce blood pressure (iv) It Stimulates osteoblast
- (a) (i) and (ii) (b) (iii) and (iv) (c) (i) and (iv) (d) (i) and (iii)
47. Rearing of honey bee is called
- a. Sericulture b. Lac culture c. Vermiculture d. Apiculture
48. Choose the correctly matched pair
- a. Egg layers – Brahma b. Broiler types - Leghorn
c. Dual purpose – White Plymouth rock d. Ornamental breeds – Silkie
49. Silk is obtained from
- a. *Laccifer lacca* b. *Nosema bombycis* c. *Attacus ricini* d. *Attacus mylitta*
50. Aquaponics is a technique which is
- a. A combination of aquaculture and fish culture
b. A combination of aquaculture and hydroponics
c. A combination of vermiculture and hydroponics
d. A combination of aquaculture and prawn culture.