

**Zoology Question Bank along with Model Answer Keys with reference to Letter No. F. 1(56)-SPD/RUSA/2016, Agartala, dated the 5<sup>th</sup> Dec, 2016 as issued by the State Project Director, Rastrya Uchatara Shiksha Abhiyan, Deptt. of Higher Education, Govt. of Tripura.**

1. In *Paramoecium caudatum* the division of micronucleus during binary fission is
  - a. mitotic
  - b. amitotic
  - c. prenuclear
  - d. meiotic
2. The nutrition in *Paramecium* is called
  - a. holozoic nutrituion
  - b. saprozoic nutrituion
  - c. holophytic nutrition
  - d. none of the above
3. *Paramoecium caudatum* is a
  - a. unicellular animal
  - b. microscopic animal
  - c. slipper shaped animal
  - d. all of the above
4. The number of nucleus in *Paramoecium* is
  - a. one
  - b. two
  - c. three
  - d. four
5. Who discovered *Paramoecium*
  - a. Hill
  - b. Ross
  - c. Lavine
  - d. Grassi
6. Hay-infusion method is used for the culture of
  - a. *Amoeba*
  - b. *Euglena*
  - c. *Paramoecium*
  - d. *Trypanosoma*
7. How many *Paramoecia* are produced from one *Paramecium* after conjugation
  - a. two
  - b. four
  - c. eight
  - d. sixteen
8. In the canal system of *Sycon*, incurrent canal communicates with the radial canal through
  - a. prosopyle
  - b. apopyle
  - c. ostium
  - d. none of the above
9. Calcareous Spicules are found in
  - a. Hydra
  - b. Echinodermata
  - c. Earthworm
  - d. Porifera
10. The common name of *Scypha* is
  - a. bath sponge
  - b. urn sponge
  - c. bowl sponge
  - d. horse sponge

11. Name of the *Scypha* larva
  - a. amphiblastula
  - b. parenchymula
  - c. stomoblastula
12. In *Scypha*, radial canals are lined by
  - a. porocytes
  - b. pinacocytes
  - c. flagellated choanocytes
  - d. myocytes
13. Polyps of *Obelia* help in
  - a. reproduction
  - b. excretion
  - c. nutrition
  - d. respiration
14. Miracidium is one of the embryonic stages as in development of
  - a. *Fasciola hepatica*
  - b. *Ascaris lumbricoides*
  - c. *Taenia solium*
  - d. *Ancylostoma duodenale*
15. In *Fasciola hepatica* miracidium develops into the sporocyst inside
  - a. *Bulinus*
  - b. *Pila globosa*
  - c. *Limnea trunculata*
  - d. *Patella*
16. Which is the infectious stage to secondary host of *Fasciola*
  - a. Miracidium
  - b. Sporocyst
  - c. Redia
  - d. Cercaria
17. The stage of life history of *Fasciola* when it infects the primary host is
  - a. Miracidium
  - b. Sporocyst
  - c. Redia
  - d. Cercaria
18. Which is the first stage of larva of *Fasciola*
  - a. Redia
  - b. Sporocyst
  - c. Miracidium
  - d. Cercaria
19. In adult *Scypha*, the canal system is of
  - a. leuconoid type
  - b. asconoid type
  - c. syconoid type
  - d. none of the above
20. Metagenesis is observed in
  - a. *Ascaris*
  - b. *Fasciola*
  - c. *Obelia*
  - d. *Ascidia*
21. Planula larva is found in life cycle of
  - a. *Asterias*
  - b. *Fasciola*
  - c. *Pila*
  - d. *Obelia*
22. Hydrorhiza and hydrocaulus are the structures found in
  - a. *Hydra*
  - b. *Obelia*
  - c. *Jellyfish*
  - d. *Metridium*

23. Osphradium of *Pila* is a kind of
- Neurosensory organ
  - Chemosensory organ
  - Gustatory receptor
  - Photoreceptor
24. The respiratory organs of *Pila* are
- Gills
  - Pulmonary Sac
  - Both a and b
  - None of the above
25. Radula is found in
- Mytilus*
  - Loligo*
  - Unio*
  - Pila*
26. Mode of respiration in *Pila* is
- Aquatic
  - Aerial
  - Both a and b
  - None
27. In earthworm, typhlosole is a part of the
- The Intestine
  - Reproductive tract
  - Circulatory system
  - Nephredium
28. In earthworm, typhlosole starts from which segment
- 18<sup>th</sup>
  - 20<sup>th</sup>
  - 26<sup>th</sup>
  - 14<sup>th</sup>
29. In earthworm, presence of enteronephric nephridia is an adaptation for
- Excretion of nitrogenous waste
  - Cutaaneous respiration
  - Conservation of water
  - Reproduction
30. Oxygen is circulated to various tissues of earthworm by
- Blood corpuscles
  - Plasma
  - Both a and b
  - None of the above
31. Two pairs of heart in earthworm occurred in segments
- 6, 7 and 9, 10
  - 7, 9 and 12, 13
  - 9, 10 and 14, 15
  - 5,6 and 12,14
32. The blood of earthworm is red because
- Haemoglobin is present in blood cells
  - Haemoglobin is dissolved in plasma
  - Both a and b
  - None of the above
33. Torsion is shown in
- Unio*
  - Pila*
  - Loligo*
  - Mytilus*

34. The number of spiracle on abdomen of cockroach
- 10 pairs
  - 8 pairs
  - 6 pairs
  - 2 pairs
35. Open type of blood circulation is found in
- earthworm
  - leech
  - cockroach
  - None of the above
36. Alary muscle of cockroach is responsible for
- circulation of blood
  - excretion
  - respiration
  - Flying
37. Cockroach belongs to phylum
- Annelida
  - Arthropoda
  - Mollusca
  - Echinodermata
38. In cockroach, respiratory pigment is absent. Hence in this animal
- Oxygen diffuses directly in the tissues
  - Anaerobic respiration takes place
  - Respiration occurs by book lung
  - None of the above
39. The digested food in *Sycon* is stored in
- Amaobocyte
  - Choanocyte
  - Thesocytes
  - Collenocytes
40. In *Sycon*, the scleroblasts are responsible for
- Reproduction
  - Formation of spicule
  - Absorption of food material
  - Excretion
41. *Sycon* belongs to phylum
- Porifera
  - Cnidaria
  - Ctenophera
  - Mollusca
42. *Obelia* belongs to phylum
- Porifera
  - Cnidaria
  - Ctenophera
  - Annelida
43. *Fasciola* belongs to phylum
- Platyhelminthes
  - Cnidaria
  - Ctenophera
  - Mollusca
44. *Pila* belongs to phylum
- Porifera
  - Cnidaria
  - Ctenophera
  - Mollusca

45. *Metaphire* belongs to phylum
- Porifera
  - Cnidaria
  - Annelida
  - Mollusca
46. Retrogressive metamorphosis is found in the life cycle of
- Ascidia*
  - Branchiostoma*
  - Petromyzon*
  - Bufo*
47. In *Sycon*, the cells responsible for opening and closing of oscula and apopyles are
- Phagocytes
  - Myocytes
  - Trophocytes
  - Thesocytes
48. Venous heart is seen in
- Invertebrate chordate
  - Reptiles
  - Amphibians
  - Pisces
49. Nephridium of Hatschek is found in
- Petromyzon*
  - Myxine*
  - Lates*
  - Branchiostoma*
50. Uropygial gland in bird is
- quill
  - oil gland
  - digestive gland
  - scale
51. Double respiration is seen in
- Cavia*
  - Columba*
  - Bos*
  - Hemidactylus*
52. Number of Air sacs in adult *Columba* is
- six
  - seven
  - eight
  - nine
53. In Vertebrates, nerve cord lies at the
- dorsal side
  - ventral side
  - lateral side
  - dorso-lateral side
54. Stomach in *Bos* is divided in to
- rumen, reticulum, omasum and abomasum
  - proventriculus and gizzard
  - duodenum, ileum, colon and rectum
  - pyloric and cardiac stomach
55. The larva of *Petromyzon* is called
- Tornaria larva
  - Bipinaria larva
  - Ammocoete larva
  - Amphiblastula larva

56. Syrinx of birds is a
- sound producing organ
  - respiratory organ
  - circulatory organ
  - productive organ
57. Vagus nerve is the
- VII cranial nerve
  - VIII cranial nerve
  - IX cranial nerve
  - X cranial nerve
58. Foramen of Panizza is seen in
- crocodiles
  - frogs
  - cows
  - fishes
59. Foramen of Monro is an opening present in
- heart
  - lung
  - brain
  - stomach
60. In *Lates*, the afferent branchial system carries
- deoxygenated blood from heart to gills
  - oxygenated blood from heart to gills
  - deoxygenated blood from heart to different parts of the body
  - oxygenated blood from gills to different parts of the body
61. In *Lates*, the efferent branchial system carries
- deoxygenated blood from heart to gills
  - oxygenated blood from heart to gills
  - deoxygenated blood from gills to different parts of the body
  - oxygenated blood from gills to different parts of the body
62. Pigeon's milk is secreted from
- gizzard
  - crop
  - duodenum
  - proventriculus
63. In *Cavia*, the muscular ridges called *columnae carnae* are found in
- stomach
  - ventricle
  - atria
  - brachiocephalic artery
64. In *Cavia*, the *fossa ovalis* is found in
- coronary artery
  - ventricle
  - atria
  - brachiocephalic artery
65. The number of wing feather or remiges in *Columba* is
- 12
  - 18
  - 23
  - 26
66. The number of tail feather or rectrices in *Columba* is
- 12
  - 16
  - 20
  - 24

67. The arrangement of feathers on the body of pigeon is called
- pterylosis
  - apteria
  - moulting
  - ala spuria
68. Ala spuria is a small tuft of feathers found in the
- first digit of the wing
  - tail region
  - whole body
  - at the base of the beak
69. The common name of *Petromyzon* is
- Silver fish
  - Ray fish
  - Lamprey
  - Hagfish
70. The common name of *Myxine* is
- Cat fish
  - Ray fish
  - Lamprey
  - Hagfish
71. Buccal funnel is absent in
- Petromyzon*
  - Myxine*
  - Amphioxus*
  - All the above
72. Heart of *Lates* possesses
- one sinus venosus, one auricle and two ventricles
  - one sinus venosus, two auricle and two ventricles
  - one auricle and two ventricles
  - one sinus venosus, one auricle and one ventricles
73. Proventriculus in *Columba* is a part of
- heart
  - cloaca
  - intestine
  - stomach
74. In *Bufo*, the X-shaped optic chiasma is found in
- diencephalon
  - telencephalo
  - mesencephalon
  - rhombencephalon
75. In *Bufo*, the Oculomotor nerve originates from
- diencephalon
  - telencephalo
  - mesencephalon
  - rhombencephalon
76. In *Bufo*, the Vagus nerve originates from
- diencephalon
  - telencephalo
  - medulla oblongata
  - rhombencephalon
77. In the brain of *Bufo*, the aqueduct of Sylvius communicates
- first and second ventricle
  - second and third ventricle
  - third and fourth ventricle
  - first and fourth ventricle

78. The brain contains cavities called ventricles. The number of ventricles in *Bufo* is
- one
  - two
  - three
  - four
79. The Reptiles retain three pairs of aortic arches. These are
- IIIrd, IVth and VIth
  - Ist, IIInd and IIIrd
  - IIInd, IIIrd and IVth
  - Ist, IIInd and Vth
80. In Mammals, the fourth pair of aortic arches persists as
- right and left systemic arteries
  - only as left systemic arteries
  - only as right systemic arteries
  - as carotid artery
81. In Birds, the sixth pair of aortic arches persists as
- right and left systemic arteries
  - only as left systemic arteries
  - only as right systemic arteries
  - right and left pulmonary artery
82. In Birds, the fourth pair of aortic arches persists as
- right and left systemic arteries
  - only as left systemic arteries
  - only as right systemic arteries
  - as carotid artery
83. In adult *Petromyzon*, the number of external gillslit is
- seven pairs
  - eight pairs
  - two pairs
  - fifteen pairs
84. The number of spiracle on body surface of Cockroach is
- 10
  - 12
  - 14
  - 16
85. Wheel organ is found in
- Balanoglossus
  - Branchiostoma
  - Ascidia
  - Lates
86. In Branchiostoma, Hatschek 's groove is found in the
- vestibule
  - pharynx
  - oesophagus
  - intestine
87. Ascidia belongs to sub phylum
- Urochordata
  - Cephalochordata
  - Vertebrata
  - none of the above
88. Which part of Ruminant stomach is called true stomach
- rumen
  - reticulum
  - omasum
  - abomasums



89. Which part of Ruminant stomach possesses gastric glands
- rumen
  - reticulum
  - omasum
  - abomasums
90. In which part of Ruminant stomach microbial fermentation occurs
- rumen
  - reticulum
  - omasum
  - abomasums
91. The unpaired air sac in Columba is
- abdominal air sac
  - posterior thorasic air sac
  - anterior thorasic air sac
  - interclavicular air sac
92. Heart of Cavia has
- a sinus venosus, one auricle and two ventricles
  - a sinus venosus, two auricle and two ventricles
  - two auricle and two ventricles
  - one auricle and one ventricles
93. In Columba, the main function of gizzard is
- storage of food grain
  - crushing of food grain
  - production of pigeon's milk
  - d. absorbtion of digested food
94. In Columba, the function of crop is
- digestion of food grains
  - crushing of food grain
  - storage of food grain and production of pigeon's milk
  - absorbtion of digested food
95. In Columba, the wing feather or remiges are one type of
- contour feather
  - down feather
  - filoplumes
  - sempiumes
96. Petromyzon is called cyclostomata due to the presence of
- circular mouth
  - buccal funnel
  - bracchial pouch
  - rasping organ
97. Ammocoete is the larval form of
- Ascidia*
  - Branchiostoma*
  - Petromyzon*
  - Bufo*
98. In *Columba*, the superior umbilicus is an aperture present in
- beak
  - contour feather
  - heart
  - lung
99. Which one is a member of class Mammalia
- Columba*
  - Bos*
  - Bufo*
  - Lates*

100. *Branchiostoma* is an example of subphylum  
 a. Hemichordata  
 b. Urochordata  
 c. Cephalochordata  
 d. Vertebrata

**Answers**

- |       |       |        |
|-------|-------|--------|
| 1. a  |       |        |
| 2. a  |       |        |
| 3. d  |       |        |
| 4. b  |       |        |
| 5. a  |       |        |
| 6. c  |       |        |
| 7. b  |       |        |
| 8. a  |       |        |
| 9. d  |       |        |
| 10. b |       |        |
| 11. a |       |        |
| 12. c |       |        |
| 13. c |       |        |
| 14. a |       |        |
| 15. c |       |        |
| 16. a |       |        |
| 17. d |       |        |
| 18. c |       |        |
| 19. c |       |        |
| 20. c |       |        |
| 21. d |       |        |
| 22. b |       |        |
| 23. b |       |        |
| 24. c |       |        |
| 25. d |       |        |
| 26. c |       |        |
| 27. a |       |        |
| 28. c |       |        |
| 29. c |       |        |
| 30. b |       |        |
| 31. b |       |        |
| 32. b |       |        |
| 33. b |       |        |
| 34. b |       |        |
| 35. c |       |        |
| 36. a |       |        |
| 37. b |       |        |
| 38. a |       |        |
| 39. c |       |        |
| 40. b |       |        |
| 41. a |       |        |
| 42. b |       |        |
| 43. a |       |        |
| 44. d |       |        |
| 45. c |       |        |
|       | 46. a |        |
|       | 47. b |        |
|       | 48. d |        |
|       | 49. d |        |
|       | 50. b |        |
|       | 51. b |        |
|       | 52. d |        |
|       | 53. a |        |
|       | 54. a |        |
|       | 55. c |        |
|       | 56. a |        |
|       | 57. d |        |
|       | 58. a |        |
|       | 59. c |        |
|       | 60. a |        |
|       | 61. d |        |
|       | 62. b |        |
|       | 63. b |        |
|       | 64. c |        |
|       | 65. c |        |
|       | 66. a |        |
|       | 67. a |        |
|       | 68. a |        |
|       | 69. c |        |
|       | 70. d |        |
|       | 71. b |        |
|       | 72. d |        |
|       | 73. d |        |
|       | 74. a |        |
|       | 75. c |        |
|       | 76. c |        |
|       | 77. c |        |
|       | 78. d |        |
|       | 79. a |        |
|       | 80. b |        |
|       | 81. d |        |
|       | 82. c |        |
|       | 83. a |        |
|       | 84. a |        |
|       | 85. b |        |
|       | 86. a |        |
|       |       | 87. a  |
|       |       | 88. d  |
|       |       | 89. d  |
|       |       | 90. a  |
|       |       | 91. d  |
|       |       | 92. c  |
|       |       | 93. b  |
|       |       | 94. c  |
|       |       | 95. a  |
|       |       | 96. a  |
|       |       | 97. c  |
|       |       | 98. b  |
|       |       | 99. b  |
|       |       | 100. c |

Signatures

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