

1. Placoid scales are present in: (3 points)
- ☐ Hagfish
 - ☐ Bony fish
 - ☒ Cartilaginous fish
 - ☐ All fishes
2. The heart of amphibian is _____ consisting of _____. (3 points)
- ☐ Four-chambered; 2-atria and 2-ventricles
 - ☒ Three-chambered; 2-atria and 1-ventricle
 - ☐ Five-chambered; 2-atria and 3-ventricles
 - ☐ Three-chambered; 1-atrium and 2-ventricles
3. The excretory system of aschelminthes consists of: (3 points)
- ☐ Canals
 - ☐ Protonephridia
 - ☐ Metanephridia
 - ☒ A and B
4. Echinoderm with elongated body is: (3 points)
- ☐ Star fish
 - ☐ Sea urchin
 - ☒ Sea cucumber
 - ☐ Cake urchin
5. _____ cause damage to oyster (a mollusk). (3 points)
- ☐ Guinea worms
 - ☒ Echinoderms
 - ☐ Scorpions
 - ☐ Spiders

6. Efficient mechanism of respiration in mammals is due to the presence of: (3 points)
- ☒ Diaphragm
 - ☐ Lungs
 - ☐ Skin
 - ☐ All of these
7. Which one of the following animals have skin possessing hairs? (3 points)
- ☐ Seahorse
 - ☐ Dogfish
 - ☐ Peacock
 - ☒ Whale
 - ☐ None of these
8. Coelom in arthropods is called as: (3 points)
- ☐ Pseudocoel
 - ☐ Acoelom
 - ☒ Haemocoel
 - ☐ Gastrovascular cavity
9. What is/are statement(s) true about reptilian egg? (3 points)
- ☐ Egg is covered by leathery shell.
 - ☐ Egg is anamniote.
 - ☐ Egg has large amount of yolk.
 - ☒ A and C
 - ☐ A, b and C
10. What is true option about birds? (3 points)
- ☐ Heart is three-chambered.
 - ☒ Only right aorta is present.
 - ☐ They are ectoderm.
 - ☐ None of these

11. Regulated body temperature is feature of all:

(3 points)

- ☐ Chordates
- ☐ Vertebrates
- ☒ Birds
- ☐ Reptiles

12. Hibernation is observed in:

(3 points)

- ☐ Frogs
- ☐ Parrots
- ☐ Salamanders
- ☒ A and C
- ☐ A, B and C

13. Spines are found in:

(3 points)

- ☐ Duck-billed Platypus
- ☐ Scaly Ant-eater
- ☒ Porcupine
- ☐ All of these

14. Hagfish is an example of:

(3 points)

- ☐ Tetrapod
- ☐ Bony fish
- ☐ Cartilaginous fish
- ☒ Cyclostome
- ☐ None of these

15. Syrinx in birds lies at the junction of:

(3 points)

- ☐ Trachea and tracheole
- ☒ Trachea and bronchi
- ☐ Tracheole and bronchi
- ☐ Pharynx and trachea

16. Gemmules in sponges are related to:

(3 points)

- ☐ Sexual reproduction
- ☐ Food capturing
- ☒ Asexual reproduction
- ☐ Respiration

17. Dorsal contractile heart is observed in:

(3 points)

- ☐ Fishes
- ☐ Echinoderms
- ☐ Molluscs
- ☒ Arthropods

18. All of the following are reptiles except:

(3 points)

- ☐ Tortoise
- ☐ Snake
- ☐ Alligator
- ☒ Bat
- ☐ No, as A.O.T. are reptiles

19. Which type of the following fins is not a paired fin?

(3 points)

- ☐ Caudal fin
- ☐ Pelvic fin
- ☐ Pectoral fin
- ☒ None of these

20. Embryo is protected by three embryonic membranes in:

(3 points)

- ☐ Fishes
- ☐ Amphibians
- ☒ Reptiles
- ☐ A, B and C

21. Cyclop is a/an _____ that carries larvae of _____. (3 points)
- ☐ Insect; Guinea worm
 - ☒ Crustacean; Guinea worm
 - ☐ Crustacean; Filarial worm
 - ☐ Insect; Filarial worm
22. Find the right answer about reptiles. (3 points)
- There are _____ pairs of _____ limbs, each typically with _____.
- ☐ Two; Tetradactyl; Five digits
 - ☐ Four; Pentadactyl; Five digits
 - ☒ Two; Pentadactyl; Five digits
 - ☐ Four; Pentadactyl; Four digits
23. The name animalia is derived from Latin word 'anima' that means: (3 points)
- ☐ Animal
 - ☒ Soul
 - ☐ Death
 - ☐ None of these
24. Development takes place through metamorphosis and that is: (3 points)
- ☐ Complete metamorphosis
 - ☐ Incomplete metamorphosis
 - ☐ Always through trochophore larva.
 - ☒ Either A and B
25. What is true about arthropods? (3 points)
- ☐ Muscles are attached external to skeleton.
 - ☒ Fertilization is mostly internal.
 - ☐ Coelom is known as pseudocoel.
 - ☐ All of these

26. Identify the animal group. (3 points)
- I) Division of labour II) Multicellular III) Lack of tissue organization
- ☐ Cnidarians
 - ☐ Flatworms
 - ☒ Sponges
 - ☐ Such features are not found in any animal group.
27. Blastopore opening develops into the mouth in: (3 points)
- ☐ Molluscs
 - ☐ Annelids
 - ☐ A and C
 - ☒ A, B and C
28. Hairs have been modified into scales in: (3 points)
- ☐ Humming bird
 - ☐ Porcupines
 - ☐ Ostrich
 - ☒ Pangolin
29. Identify the animal having a top and bottom and similar body parts radiate from a central body axis. (3 points)
- ☐ Spongilla
 - ☒ Jelly fish
 - ☐ Seahorse
 - ☐ Butterfly
30. Terrestrial arthropods can respire through: (3 points)
- ☐ Lungs
 - ☐ Gills
 - ☒ Book lungs
 - ☐ Moist skin
 - ☐ A and D

31. Malpighian tubules are known for:

(3 points)

- ☐ Respiration
- ☒ Excretion
- ☐ Reproduction
- ☐ Digestion

32. Animals can be classified according to:

(3 points)

(I) presence or absence of tissue
(III) types of body cavity.

(II) number of tissues layer
(IV) Size

- ☐ I and II
- ☐ II and III
- ☒ I, II and III
- ☐ I, II, III and IV

33. The sponges consist of outer dermal layer known as:

(3 points)

- ☐ Choanoderm
- ☒ Pinacoderm
- ☐ Porocytes
- ☐ Ostia

34. Complete separation of venous and arterial blood in the heart; this condition is observed in:

(3 points)

- ☐ All reptiles
- ☐ All amphibians
- ☒ All birds
- ☐ All of these

35. Coelomates can be divided into:

(3 points)

- ☐ Two groups: Diploblastic and Triploblastic
- ☐ Three groups: Acoelomate, Pseudocoelomate and True coelomate
- ☒ Two groups: Protostomes and Deuterostomes
- ☐ Three groups: Asymmetrical, Radially symmetrical and Bilaterally symmetrical

36. Which of the following animals can live in all types of habitats? (3 points)
- ☐ Cnidarians
 - ☐ Sponges
 - ☐ Segmented worms
 - ☐ Echinoderms
 - ☒ Arthropods
37. Which group of animals show characteristics of both echinoderms and chordates? (3 points)
- ☐ Vertebrates
 - ☐ Arthropods
 - ☒ Hemichordates
 - ☐ Urochordates
38. Respiratory system of arthropods consists of air tubes known as: (3 points)
- ☒ Trachea
 - ☐ Ostia
 - ☐ Spiracles
 - ☐ Alveoli
39. Pseudocoelom is the body cavity of: (3 points)
- ☐ Sponges
 - ☐ Cnidarians
 - ☐ Platyhelminthes
 - ☒ Roundworms
40. Osteichthyes are: (3 points)
- ☐ Oviparous
 - ☐ Ovoviviparous
 - ☐ Viviparous
 - ☒ Either A, B or C

41. Which one of the following is known as rasping organ? (3 points)
- ☐ Morula
 - ☐ Ampulla
 - ☒ Radula
 - ☐ Amphiblastula
42. How many cranial nerves are there in bony fishes? (3 points)
- ☐ 5 pairs
 - ☐ 6 pairs
 - ☐ 8 pairs
 - ☒ 10 pairs
43. The mother feeds the young ones and carries them in the pouch till they are matured enough; such animals are: (3 points)
- ☐ Reptiles
 - ☐ Placental mammals
 - ☒ Marsupials
 - ☐ Monotremes
44. Hag fish has: (3 points)
- ☐ Brain-box
 - ☐ Spine
 - ☐ Dermal scales
 - ☒ A and B
 - ☐ A, B and C
45. What is true option about bony fishes? (3 points)
- ☐ Heterocercal tail
 - ☐ Found exclusively in marine water
 - ☒ Operculum
 - ☐ A, B and C are true

46. Hemichordates have close relationship to:

(3 points)

- ☐ Vertebrates
- ☒ Chordates
- ☐ Molluscs
- ☐ Arthropods

47. The component of alimentary canal of birds that is used for crushing food is known as:

(3 points)

- ☒ Gizzard
- ☐ Beak
- ☐ Air-sac
- ☐ Syrinx

48. Eyespots are present in:

(3 points)

- ☒ Some flatworms
- ☐ Some round worms
- ☐ Some segmented worms
- ☐ Some acorn worms

49. The sac-like internal cavity in coelenterates is also known as:

(3 points)

- ☐ Spongocoel
- ☐ Haemocoel
- ☒ Gastrovascular cavity
- ☐ Pseudocoel

50. Assume sequence of animal phyla. Animals from annelids to the chordates are:

(3 points)

- ☐ Deuterostome
- ☐ Bilaterally symmetrical
- ☒ Coelomates
- ☐ B and C
- ☐ A, B and C

51. Marsupium is abdominal pouch and found in: (3 points)
- ☐ Female monotremes
 - ☒ Female marsupials
 - ☐ Male marsupials
 - ☐ Both Male and female marsupials
 - ☐ A and B
52. All of the following terms are related to animals except: (3 points)
- ☐ Sessile
 - ☐ Parasite
 - ☒ Unicellular
 - ☐ Free-living
 - ☐ None, as all of these are related to animals
53. Protonephridia are typically found in: (3 points)
- ☐ Pore-bearing animals
 - ☐ Coelenterates
 - ☒ Platyhelminthes
 - ☐ A, B and C
54. No paired appendages and no dorsal fin; such situation is observed in: (3 points)
- ☒ Class Myxini
 - ☐ Class Chondrichthyes
 - ☐ Class Osteichthyes
 - ☐ A, B and C
55. Incus, Malleus and Stapes are: (3 points)
- ☐ Three bones of vertebral column in mammals.
 - ☐ Three examples of Class-Osteichthyes.
 - ☐ Three types of teeth of in mammals.
 - ☒ Three bones of ear in mammals.

56. The endoskeleton of bath sponge is consisted of: (3 points)
- ☐ Bones
 - ☐ Silica
 - ☒ Spongin fibre
 - ☐ All of these
57. Digestion in sponges is _____ and occurs in _____. (3 points)
- ☐ Intracellular; Porocytes
 - ☒ Intracellular; Food vacuoles within choanocytes
 - ☐ Extracellular; Spongocoel
 - ☐ Extracellular; Food vacuoles
58. The skin of birds is covered by an epidermal horny exoskeleton of _____ all over the body and _____ on the feet. (3 points)
- ☐ Feathers; Feathers
 - ☒ Feathers; Scales
 - ☐ Scales; Scales
 - ☐ Scales; Feathers
59. The body of cephalochordates is: (3 points)
- ☐ Eel-like
 - ☒ Fish-like
 - ☐ Worm-like
 - ☐ Ribbon-like
60. Hemichordates are generally called as: (3 points)
- ☐ Round worms
 - ☐ Segmented worms
 - ☒ Acorn worms
 - ☐ Flatworms

61. Skull of mammals has:

(3 points)

- ☐ One occipital condyle
- ☒ Two occipital condyles
- ☐ Three occipital condyles
- ☐ Four occipital condyles

62. The maximum mammalian characteristics are found in:

(3 points)

- ☐ Monotremes
- ☒ Placental mammals
- ☐ Marsupials
- ☐ A, B and C; as equal characteristics

63. What is true about jaws of birds?

(3 points)

- ☐ They have two sets of teeth.
- ☐ They have teeth in upper jaw only.
- ☐ They have one set of teeth.
- ☒ They extends into horny beak.
- ☐ None of these

64. Generally, the nitrogenous waste of arthropods is:

(3 points)

- ☐ Ammonia
- ☐ Urea
- ☒ Uric acid
- ☐ Either A, B or C

65. Evolutionary point of view, sponges have been evolved from:

(3 points)

- ☐ Green algae
- ☐ Dinoflagellates
- ☒ Choanoflagellates
- ☐ Cyanobacteria

66. The mesoderm is packed solidly between the ectoderm and endoderm; such condition is observed in: (3 points)
- ☐ Round worms
 - ☐ Segmented worms
 - ☒ Flatworms
 - ☐ All worms
67. Dugesia is a/an: (3 points)
- ☒ Planarian
 - ☐ Mollusk
 - ☐ Echinoderm
 - ☐ Spider
68. In arthropods, the skeleton is _____ and formed chiefly of _____. (3 points)
- ☐ Endoskeleton; Chitin
 - ☒ Exoskeleton; Chitin
 - ☐ Endoskeleton; Peptidoglycan
 - ☐ Exoskeleton; CaCO_3
69. What is true about echinoderms? (3 points)
- ☐ Anus is on the oral side
 - ☐ Mouth is on the aboral side.
 - ☒ Anus is on the aboral side.
 - ☐ A and B
 - ☐ None of these
70. Dried skeleton of echinoderms are used as fertilizer because of their high percentage of: (3 points)
- ☐ Carbon and nitrogen
 - ☐ Hydrogen and nitrogen
 - ☒ Calcium and nitrogen
 - ☐ Calcium and sulfur