

2021

Time : 3 hours

Full Marks : 75

Pass Marks : 33

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

*Answer any **five** questions in which*

Q. Nos. 1 and 2 are compulsory.

1. Select the correct answer of the following :

(a) Tornaria is the larva of :

(i) Balanoglossus

(ii) Herdmania

- (iii) Salpa
 - (iv) Amphioxus
- (b) Kolliker's pit is associated with :
- (i) Photoreception
 - (ii) Olfactory purpose
 - (iii) Balancing mechanism
 - (iv) None of these
- (c) Seven pairs of gill clefts are found in :
- (i) Scoliodon
 - (ii) Labeo
 - (iii) Petromyzon
 - (iv) None of these
- (d) Ammocoete is the larval stage of :
- (i) Petromyzon
 - (ii) Myxine
 - (iii) Scoliodon
 - (iv) Ambystoma

- (e) Agnatha are animals without :
- (i) Jaws
 - (ii) Hearts
 - (iii) Kidney
 - (iv) Teeth
- (f) Which is not an Acraniata ?
- (i) Amphioxus
 - (ii) Cephalodiscus
 - (iii) Petromyzon
 - (iv) Dogfish
- (g) In scollidon, the teeth are :
- (i) Homodont
 - (ii) Heterodont
 - (iii) Both (i) and (ii)
 - (iv) None of these
- (h) Cartilaginous skeleton is found in : ,
- (i) Frog
 - (ii) Scollidon

- (iii) Whale
- (iv) Sparrow
- (i) Air bladder is found in :
 - (i) All fishes
 - (ii) Hag fish
 - (iii) Dog fish
 - (iv) Bony fish
- (j) A venous heart is present in :
 - (i) Scoliodon
 - (ii) Labeo
 - (iii) Both (i) and (ii)
 - (iv) None of these
- (k) Labeo is a _____.
 - (i) Herbivorus
 - (ii) Carnivorus
 - (iii) Omnivorus
 - (iv) Frugivorous

- (l) Mid-wife toad is :
- (i) Bufo
 - (ii) Hyla
 - (iii) Alytes
 - (iv) Salamander
- (m) Fovea centralis is a part of :
- (i) Heart
 - (ii) Eye
 - (iii) Brain
 - (iv) Kidney
- (n) Venom of cobra is :
- (i) Neurotoxic
 - (ii) Cardiotoxic
 - (iii) Myotoxic
 - (iv) None of these
- (o) Corpus callosum is poorly developed in :
- (i) Prototheria

- (ii) Metatheria
- (iii) Eutheria
- (iv) None of these

2. Write short notes on any **three** of the following :

- (a) Primates
- (b) Origin of Reptiles
- (c) Prototheria
- (d) Flight adaptation
- (e) Origin of Amphibian

3. Give an account of respiration in Columba.

4. Describe retrogressive metamorphosis in Herdmania.

5. Give an account of Neoteny in Amphibia.

6. Describe the biting and feeding mechanism in snakes.

7. Classify Amphibia upto order giving characters and examples.

8. Describe the characters and distribution of metatheria.
9. Describe the digestive system of Columba.
10. What is venous heart ? Give an account of arterial system of Scoliodon.

