

Answer five questions in all, selecting not more than two from each Group and Q.No. 1 is compulsory.

1. Select the correct answer of the following : LNMUonline.com
- (a) Pseudopodia are commonly formed in :  
 (i) Amoeba (ii) Amoeba and Leucocytes  
 (iii) Many protozoans and Leucocytes (iv) Many protozoans only
- (b) Animals which develop mouth away from blastopore are called :  
 (i) Protostomia (ii) Deuterostomia (iii) Parazoa (iv) Metazoa
- (c) Which animal transforms from bilateral to radial symmetry in its life history ?  
 (i) Obelia (ii) Sponge (iii) Hydra (iv) Star fish
- (d) Which of the following characters distinguish sponge from other animals ?  
 (i) Coelenteron (ii) Hollow body (iii) Dermal papilla (iv) Choanocytes
- (e) Which animal has nerve cells but no nerves ?  
 (i) Hydra (ii) Tapeworm (iii) Earthworm (iv) Tadpole and frog
- (f) Ephyra larva belongs to :  
 (i) Edwardsia (ii) Hydra (iii) Obelia (iv) Aurelia
- (g) Body is unsegmented in :  
 (i) Cockroach (ii) Taenia solium (iii) Fasciola hepatica (iv) Earthworm
- (h) Tapeworm derives food from host by :  
 (i) Scraping (ii) Sucking (iii) Anaerobically  
 (iv) Absorption through body wall
- (i) Amphids of Ascaris are :  
 (i) Adhesive organ (ii) Secrete proteolytic enzyme  
 (iii) Organ of small and chaemoreceptor (iv) Secrete saliva
- (j) Chloragogen cells of Pheretima have similar functions like vertebrate :  
 (i) Kidney (ii) Liver (iii) Lungs (iv) Stomach
- (k) Septum is lacking in Pheretima in segments :  
 (i) 7/8, 6/7 (ii) 3/4, 9/10 (iii) 4/5, 8/9 (iv) 6/7, 8/9
- (l) Leech can be called :  
 (i) Unsegmented (ii) Vector (iii) Dioecious (iv) Hermaphrodite
- (m) Which animal is not an insect ?  
 (i) Housefly (ii) Butterfly (iii) Spider (iv) Moth
- (n) Which is exclusively chordate character ?  
 (i) True coelom (ii) Pharyngeal gill slits  
 (iii) Bilateral symmetry (iv) Triploblastic
- (o) Which of the following lung fish is found in Australia ?  
 (i) Protopterus (ii) Neoceratodus (iii) Dioecious (iv) Hermaphrodite
- (m) Which animal is not an insect ?  
 (i) Housefly (ii) Butterfly (iii) Spider (iv) Moth
- (n) Which is exclusively chordate character ?  
 (i) True coelom (ii) Pharyngeal gill slits  
 (iii) Bilateral symmetry (iv) Triploblastic
- (o) Which of the following lung fish is found in Australia ?  
 (i) Protopterus (ii) Neoceratodus (iii) Lepidosiren (iv) Latimeria

**Group-A**

- Classify porifera upto the orders giving characters and examples.
- Describe the flagellar and cilliary movements in protozoa.
- Give an account of the geographical distribution, salient features and affinities of Onychophora.
- Give an account of torsion and detorsion in Gastropoda.

**Group-B**

- Explain the various theories of the origin of chordates. LNMUonline.com

7. Describe the development of Amphioxus upto the formation of coelom.
  8. What do you mean by parental care ? Give an account of parental care in fishes.
  9. How would you distinguish between a poisonous and a nonpoisonous snake ? What are the basic anatomical differences between the two.
- Or, Give a brief description on Neuromast organs of fishes.