

(6 pages)

Reg. No. :

**Code No. : 10696 E Sub. Code : JMZO 11/
SMZO 11**

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

First Semester

Zoology — Main

ANIMAL DIVERSITY — I — INVERTEBRATA

(For those who joined in July 2016 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Entamoeba is ———— parasite.

- (a) Digenic
- (b) Monogenic
- (c) Polygenic
- (d) Trigenic

2. Whittaker five kingdom concept is based on the mode of nutrition.

- (a) Photosynthesis (b) Absorption
- (c) Ingestion (d) All of these

3. In platyhelminthes excretory function is performed by

- (a) Nephridia (b) Parenchyma
- (c) Nephron (d) Flame cells

4. One of the following hermaphrodite organism

- (a) Ascaris (b) Liverfluke
- (c) Filaria (d) None of these

5. The intermediate host of Guinea worm is

- (a) Mosquito (b) Housefly
- (c) Daphnia (d) Cyclops

6. In earthworm the Clitellum present in the segments between

- (a) 10 - 14 (b) 14 - 17
- (c) 16 - 19 (d) 20 - 24

Page 2 Code No. : 10696 E



7. In *Penaeus* the number of appendages present on cephalic region is
 (a) 5 pairs (b) 6 pairs
 (c) 7 pairs (d) 8 pairs
8. The important character of phylum Arthropoda is
 (a) 3 pair of legs (b) Compound legs
 (c) Haemocoel (d) Jointed appendages
9. Spiral type of shell is present in
 (a) *Unio* (b) *Pila*
 (c) *Mytilus* (d) *Sepia*
10. Tube feet are characteristic feature of
 (a) Star fish (b) Jelly fish
 (c) Cray fish (d) Cuttle fish

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Evaluate the principle of Taxonomy.

Or

- (b) Describe the external morphology of *Paramecium*.

Page 3 Code No. : 10696 E

12. (a) Explain the morphological features of Liverfluke.

Or

- (b) Describe the structural organization of *Cercaria* larvae.

13. (a) What do you mean by extra-intestinal migration? Explain with example.

Or

- (b) Describe the life cycle of *Filaria*.

14. (a) Explain the structure of compound eye in *Penaeus*.

Or

- (b) Explain the economic importance of lac insects.

15. (a) Point out the general features of Molluscs.

Or

- (b) With neat sketch explain the structural organization of *Pila* shell.

Page 4 Code No. : 10696 E

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PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain the life cycle of Plasmodium.

Or

- (b) Give the general feature, classification of phylum porifera upto class with example.

17. (a) With neat labelled sketch explain the structural organization of Obelia colony.

Or

- (b) Explain the types and economic importance of coral reefs.

18. (a) Explain the life history, parasitic adaptation and control measures of Wucherria.

Or

- (b) Write an essay on the economical biological significance of earthworms.

19. (a) Honey bees are classical example for social insects — Justify.

Or

- (b) Discuss the economic importance of Honey bee.

Page 5 Code No. : 10696 E

20. (a) Write an account on organs of mantle cavity in Pila.

Or

- (b) Describe the reproductive system of Pila.

Page 6 Code No. : 10696 E

