

DECEMBER 2015

P/ID 40301/PZLA

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Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions each in 50 words.

Define / Explain the following :

1. Nomenclature.
2. Mesozoa.
3. Parthenogenesis.
4. Segmentation.
5. Archiannelida.
6. Pentactula.
7. Water Vascular System.
8. Phoronida.
9. Tardigrada.
10. Living fossil.

PART B — (5 × 6 = 30 marks)

Answer ALL questions each in 250 words.

11. (a) Define symmetry and its significance in the animal organization.

Or

- (b) Explain reproduction in protozoa

12. (a) Write about deep sea and freshwater sponges

Or

- (b) Explain structural affinities of Ctenophora with other phyla.

13. (a) Give short account on Rhabdocoela.

Or

- (b) Discuss the origin of Metazoa with theories.

14. (a) Define the structural peculiarities of Xiphosura.

Or

- (b) Write about the importance of Pentactula.

15. (a) Explain the special functional morphology of Sipunculida.

Or

- (b) Give short account on Lophophorates.

PART C — (5 × 10 = 50 marks)

Answer ALL questions each in 500 words.

16. (a) Narrate the feeding mechanism in Protozoa.

Or

- (b) Give an account on origin and evolution of Metazoa with supportive theories.

17. (a) Discuss the interrelationship between different classes of Mesozoa.

Or

- (b) Give a detailed illustration on polymorphism in protozoa.

18. (a) Write about the structural peculiarities and affinities of Ctenophora.

Or

- (b) Discuss the adaptive biology for parasitic mode of life in Platyhelminthes.

19. (a) Narrate in detail the interrelationship between different classes of Annelida.

Or

- (b) Justify molluscan phylogeny with suitable ancestry and add a note on Monoplacophora

20. (a) Narrate the functional peculiarities of echinoderms.

Or

- (b) Explain the evolutionary significance of the fossil Brachiopoda.
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