

MAY 2012

**P/ID 40301/PZLA**

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Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 50 words.

1. Mastigophora.
2. Gamogony.
3. Biradial symmetry.
4. Osculum.
5. Mesozoa.
6. Nematocysts.
7. Pleurobrachia.
8. Bilateria.
9. Peripatus.
10. Echiuroidea.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 250 words.

11. (a) Give an account of outline classification of Protozoa.

Or

- (b) Write a short note on spherical and Radial symmetry.

12. (a) Describe the functions of canal system in sponger.

Or

- (b) Explain the processes metagenesis in obelia.

13. (a) Describe the salient features of ctenophores.

Or

- (b) Write a short note on Rhabdozoa characters.

14. (a) Describe the reproductive system of Fasciola hepatica.

Or

- (b) What are the changes occurs during the origin of Arthropoda from Annelida?

15. (a) Give a short note on Ammonoidea.

Or

(b) Describe the functional morphology of Trilobita.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 500 words.

16. (a) Give an account of sexual reproduction in Protozoa.

Or

(b) Explain the colonial and polyphyletic theory.

17. (a) Describe the Hexactinellida characters in Porifera.

Or

(b) Explain the structural peculiarities and affinities of ctenophora.

18. (a) Write in detail the origin of metamerism.

Or

(b) Explain the helminthes parasites adaptive biology for parasitic mode of life.

19. (a) Write an essay on Torsion in Gastropod.

Or

(b) Explain in detail water vascular system in Echinodea.

20. (a) Structural peculiarities and affinities of Nernertinea – Discuss.

Or

(b) Describe the Affinity of acanthocephala with helminthes.

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