

MAY 2012

P/ID 40302/PZLB

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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. Comment on synonym.
2. Define taxon.
3. Comment on significance of placoderms.
4. Comment on importance of cephalochordata.
5. Comment on salient features of anura.
6. Give two examples of dipnoi.
7. Write notes on ichthyosaurs.
8. Discuss the significance of archeopteryx.
9. Write notes on ear ossicles.
10. Write notes on metanephros.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 250 words.

11. (a) Write an account on ecological approaches to taxonomy.

Or

- (b) Write an account on binomial nomenclature.

12. (a) Discuss the evolutionary significance of retrogressive metamorphosis.

Or

- (b) Discuss the evolutionary significance of hemichordata.

13. (a) Discuss the origin of tetrapod limbs.

Or

- (b) Discuss the fossil history of chondrichthys.

14. (a) Describe the peculiarities of ornithischians.

Or

- (b) Describe the salient features of eutheria.

15. (a) Describe integuments of fishes.

Or

(b) Describe paired fins in fishes.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 500 words.

16. (a) Discuss the biochemical approaches to taxonomy.

Or

(b) Describe numerical taxonomy.

17. (a) 'Placoderms are ancient "experiments" in evolution of jawed vertebrates' – Discuss.

Or

(b) Discuss the evolutionary position of ostracoderms.

18. (a) Discuss the adaptive radiation of bony fishes.

Or

(b) Describe the evolution of amphibia.

19. (a) Discuss the adaptive radiation in birds.

Or

(b) Discuss the evolutionary significance of sphenodon.

20. (a) Discuss the evolutionary significance of aortic arches in vertebrates.

Or

(b) Write an account on jaw suspension in vertebrates.

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