

OCTOBER 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. Write an account on trinomial nomenclature.
2. Comment on synonym.
3. Comment on ammocoetus larva.
4. Comment on retrogressive metamorphosis.
5. Comment on the significance of Actinopterygii.
6. Write the salient features of urodela.
7. Comment on Brontosaurus.
8. Write notes on ex situ conservation.
9. Write notes on aortic arches.
10. Comment on placoid scales.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 250 words.

11. (a) Write notes on different 'suffixes' used in taxonomy.

Or

- (b) Write an account on ecological approach to taxonomy.

12. (a) Write an account on origin of jaws.

Or

- (b) Comment on the affinities of hemichordata with annelida.

13. (a) Discuss the tendencies in elasmobranch evolution.

Or

- (b) Write an account on evolution of amphibia.

14. (a) Write an account on structural peculiarities of metatheria.

Or

- (b) Discuss the structural peculiarities of prototheria.

15. (a) Write an account on integumentary system of birds.

Or

- (b) Describe urinogenital system of amphibians.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

All questions carry equal marks.

Each answer should not exceed 500 words.

16. (a) Describe the concept and components of numerical taxonomy.

Or

- (b) Describe the different types of taxonomic keys.

17. (a) Describe the evolutionary significance of cyclostomata.

Or

- (b) Describe the evolutionary significance of Ostracoderms.

18. (a) Describe the peculiarities of apoda.

Or

- (b) Describe the adaptive radiation of bony fishes.

19. (a) “Birds are Glorified reptiles” – Discuss.

Or

(b) Write an account on evolution of reptiles.

20. (a) Describe the origin of tetrapod limbs.

Or

(b) Compare the brain of vertebrates.

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