

MAY 2015

P/ID 40302/PZLB

Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions each in 50 words.

1. Explain the term binomial nomenclature.
2. What is meant by “Simple non-bracket” key?
3. Describe the time of origin in Placoderms.
4. List out any four Ostracoderm during Silurian period.
5. Write about the fossil history of chondrichthyes.
6. What are the affinities of Apoda?
7. Comment on Rhynchocephalia.
8. Write a short note on palate in birds.
9. Draw a typical Pentadactyl fore limb.
10. Describe the trends in the evolution of heart.

PART B — (5 × 6 = 30 marks)

Answer ALL questions each in 250 words.

11. (a) Give a brief account of binomial nomenclature.

Or

- (b) Describe the branching type of Taxonomic key.

12. (a) Enumerate the Silurian and Devonian periods of Ostracoderms.

Or

- (b) Mention the structural peculiarities of Cyclostomata.

13. (a) What are the adaptive radiation of bony fishes?

Or

- (b) Explain the fossil history of chondrichthyes.

14. (a) Discuss “birds as glorified reptiles”.

Or

- (b) Describe the adaptive radiation in birds.

15. (a) Give a comparative account on the evolution of paired fins in vertebrates.

Or

- (b) Explain any one of the vertebrate integumentary system.

PART C — (5 × 10 = 50 marks)

Answer ALL questions each in 500 words.

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

Or

- (b) Explain the new trends in taxonomy with example of ethological approaches.

17. (a) Give an account on the evolutionary position of the Ostracoderms.

Or

- (b) Write an account on the origin of Jaw and different types of Jaw suspension in vertebrates.

18. (a) Write an account on the evolution of amphibia.

Or

(b) Explain the different adaptive radiation in amphibia.

19. (a) Describe the different structural peculiarities of Metatheria.

Or

(b) Write an essay on Wild. Life Fauna of India.

20. (a) Give a brief account on the urinogenital system of vertebrates.

Or

(b) Explain the origin and evolution of middle ear and inner ear.
