

APRIL/MAY 2018

BABT12 — BIOSYSTEMATICS IN BIOLOGY

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is a herbarium?
2. List any few botanical gardens in India.
3. What are endosymbionts?
4. What is the mode of transmission of viroids?
5. Give any two importance of algae.
6. What are bryophytes?
7. Define gastrulation?
8. List any two features of annelida.
9. Write about Pisces.
10. List few traits of mammals.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain the steps to be followed while collecting specimens for herbarium.

Or

- (b) Give an account on Museum and its significance.

12. (a) Briefly describe the characteristic of kingdom Monera.

Or

- (b) Write notes on the features of amoeboid protozoan.

13. (a) Differentiate between Monocotyledons and dicotyledons.

Or

- (b) Write a note on the economical importance of gymnosperm.

14. (a) Briefly comment on the characteristic features of ashelminthes.

Or

- (b) Discuss in short about the prochordate - urochordator tunica.

15. (a) Brief about the general characters of Mammal.

Or

- (b) Explain in short the features of Amphibians.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss in detail the types of taxonomic keys used in the field of biology.

17. Explain euglenoid with reference to Euglena structure.

18. Define the following terms

- (a) Thallus
(b) Isogamy
(c) Anisogamy
(d) Oogamy.

19. Describe the characteristic properties of phylum Mollusca.

20. Explain the important characters of the kingdom reptiles with the help of a neatly labelled Lizard diagram.