

DECEMBER 2014

P/ID 40318/PZLM

Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

Each answer should not exceed 50 words.

Define/Explain the following :

1. Alpha error.
2. ISSN.
3. Quarantine.
4. Photoelectric effect.
5. Ninhydrin.
6. V_{\max} .
7. Alcian dye.
8. Census.
9. Polyspecific Population.
10. Peer Reviewed Journal.

PART B — (5 × 6 = 30 marks)

Answer ALL questions.

Each answer should not exceed 250 words.

11. (a) Comment on primary source of information.

Or

- (b) Write notes on databases associated with literature.

12. (a) Give an account on the record maintenance of animal house.

Or

- (b) Explain Laws of light absorption.

13. (a) Write notes on double staining.

Or

- (b) Write notes on the physical meaning of Km.

14. (a) Comment on problems associated with fixation of lipid materials.

Or

- (b) Enlist the precautions associated with photomicrography.

15. (a) Comment on mark and recapture method.

Or

- (b) Write notes on peer review processes.

PART C — (5 × 10 = 50 marks)

Answer ALL questions.

Each answer should not exceed 500 words.

16. (a) Explain different steps in research and comment on types of research with examples.

Or

- (b) Write notes on impact factor and citation index with examples.

17. (a) Write an account on different models used in the selection of animals with examples.

Or

- (b) Describe the principle, parts and advantages of fluorescence microscope.

18. (a) Give an account on the principle, working procedure and applications of thin layer chromatography.

Or

- (b) Describe the principle, steps involved in the calculation, terms of equation and applications of Line Weaver Burke plot.

19. (a) Elaborate the types of micrometry and working procedure of micrometry.

Or

- (b) Give detailed account on the types of microtome and their significances with illustrations.

20. (a) Describe the role of abiotic factors in density of different animals in various environments.

Or

- (b) Give an account on different components of a dissertation with examples.
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