

MAY 2015

P/ID 40318/PZLM

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Time : Three hours

Maximum : 100 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions each in 50 words.

Define/Explain the following :

1. Hypothesis.
2. Open access.
3. Transgenic animals.
4. O<sub>2</sub> electrode.
5. Cuvette.
6. Retardation factor.
7. Reaction rate.
8. Catalytic histochemistry.
9. Qudrat method.
10. Abstract.

PART B — (5 × 6 = 30 marks)

Answer ALL questions each in 250 words.

11. (a) Write notes on scientific journals.

Or

- (b) Describe secondary data with suitable example.

12. (a) Enlist the items of Standard Operating Procedures.

Or

- (b) Describe any two method used in selection of animal.

13. (a) Describe light microscope.

Or

- (b) Give an account on Beer's Law.

14. (a) Describe the principle and applications of Ion exchange Chromatography.

Or

- (b) Explain the Precautions used during Photomicrography.

15. (a) Comment on Corers.

Or

- (b) Describe the methods in arranging bibliography of a thesis.

PART C — (5 × 10 = 50 marks)

Answer ALL questions each in 500 words.

16. (a) Elaborate the steps involved in the processes of research with suitable example.

Or

- (b) Describe the role of internet and databases in literature collection with examples.

17. (a) Explain the CPCSEA guidelines associated with physical facilities and environmental factors associated with laboratories.

Or

- (b) Write the principle, components and applications pH meter with illustrations.

18. (a) Write an essay on the thin layer chromatography with suitable diagram.

Or

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

19. (a) Describe the histochemical tests associated with carbohydrates.

Or

- (b) Describe different micrometers and the working procedures and applications of micrometers.

20. (a) Describe the methods involved in the population estimation of wild animals.

Or

- (b) Elaborate the preparation and components of a thesis with suitable illustrations.