

NOVEMBER/DECEMBER 2019

MAM34A — BIOLOGICAL TECHNIQUES

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Write briefly about the principle and clinical applications of immunofluorescence technique.

Or

- (b) Give an account on phase contrast microscope and its functioning.

2. (a) Describe the various types of Centrifuges.

Or

- (b) Explain about voltametric analysis.

3. (a) Give an account on the principle and method of ion exchange chromatography.

Or

- (b) Comment on gel permeation technique.

4. (a) Write short notes on ouchterlony test.

Or

- (b) Give short account on SDS-PAGE.

5. (a) Discuss briefly about nucleic acid hybridisation.

Or

- (b) Explain about electroporation technique.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Write in detail about the fluorescence microscope.

7. Discuss in detail the principle, instrumentation and application of UV-Visible Spectro Photometer.

8. Explain the techniques involved in gas chromatography.

9. Give an account of agarose gel electrophoresis.

10. Write an essay on purification of pure culture of bacteria.