

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.