

APRIL/MAY 2019

MAM34A — BIOLOGICAL TECHNIQUES

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) How are Microphotographs developed in a dark room?

Or

- (b) Describe the principle and applications of dark field microscope.

2. (a) Define electroanalytical methods. Write briefly about potentiometric analysis.

Or

- (b) Give an account on biosensors.

3. (a) Explain about thin layer chromatography.

Or

- (b) Describe the principles and types of paper chromatography.

4. (a) Give an account of the principle and method of RIA test. What are their uses?

Or

- (b) Describe SDS – PAGE technique.

5. (a) Discuss briefly about the preservation of microbes.

Or

- (b) Explain the methods of preparing pure cultures of bacteria.

SECTION B — (3 × 15 = 45 marks)

Answer any THREE questions.

6. Explain the principle and working mechanism of phase contrast microscope.
7. Write an essay on principle, instrumentation and applications of spectrophotometer.
8. Discuss about gas liquid chromatography.
9. Write the principle and uses of two dimensional electrophoresis.
10. Discuss in detail about nucleic acid hybridisation technique.

