

NOVEMBER/DECEMBER 2018

**MAM34A — BIOLOGICAL TECHNIQUES**

Time : Three hours

Maximum : 75 marks

**SECTION A — (5 × 6 = 30 marks)**

Answer ALL questions.

1. (a) Write about Confocal Scanning Laser Microscopy. Add a note on its advantages.

Or

- (b) Give an account of the principle and clinical applications of immuno fluorescence technique.

2. (a) Explain briefly about Voltametric analysis.

Or

- (b) Describe the structure and functioning of GM counter.

3. (a) Write a note on gel permeation technique.

Or

- (b) Discuss briefly about the various applications of Chromatographic techniques.

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4. (a) Comment on Ouchterlony test.

Or

- (b) Give an account on two dimensional electrophoresis.

5. (a) Describe the procedure for plasmid isolation.

Or

- (b) Explain about electroporation technique.

**SECTION B — (3 × 15 = 45 marks)**

Answer any THREE questions.

6. Write in detail about fluorescence microscope.  
7. What is Centrifugation? Explain in detail about ultracentrifuge.  
8. Discuss the principle and applications of HPLC.  
9. Describe the agarose gel electrophoresis.  
10. Explain in detail the Western blotting technique.



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