

AE-1257

B.Sc. (Part - II)
Term End Examination, 2016-17

MICROBIOLOGY

Paper - II

Principles of Bio-Instrumentation
and Techniques

Time : Three Hours] [*Maximum Marks* : 50

Note : Answer **all** questions. All questions carry equal marks.

Unit-I

1. Describe the principle and working of luminometry and give its application.

OR

Write short notes on the following :

- (a) Lambert-Beer Law
- (b) LASER

(2)

Unit-II

2. What do you mean by Ion Exchange Chromatography? Write its principle, working and application.

OR

Write short notes on the following :

- (a) Adsorption Chromatography
(b) Application of Gas Chromatography

Unit-III

3. Write a comparative note on centrifugation and ultracentrifugation by throwing light upon its types, working and application.

OR

Write short notes on the following :

- (a) Phase Contrast Microscope
(b) TEM

Unit-IV

4. Compare the terms Decontamination, Sterilization and Disinfection in detail.

OR

(3)

Write short notes on the following :

- (a) MS Media
- (b) Clone

Unit-V

5. What is Electrophoresis ? Explain Immuno-electrophoresis in detail.

OR

Write short notes on the following :

- (a) Agarose Gel Electrophoresis
 - (b) Enzyme Assay Method
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