



AF-3057

B.Sc. (Part - II)
Term End Examination, 2017-18

MICROBIOLOGY

Paper - II

Time : Three Hours] [Maximum Marks : 50

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

Unit-I

1. Discuss the principle and application of spectrophotometry.

OR

Write short notes on the following :

- (a) Applications of spectrofluorometry
- (b) pH Meter

(2)

Unit-II

2. What do you mean by Chromatography ?
Briefly discuss the principle, types and application of partition chromatography.

OR

Write short notes on the following :

(a) Application of FPLC
(b) Paper Chromatography

Unit-III

3. Discuss the working principle and applications of phase contrast microscope.

OR

Write very short notes on the following :

(a) Principle of centrifugation
(b) LASER
(c) Cofocal
(d) Ocular lens

Unit-IV

4. What do you mean by In vitro technology ?
Discuss the principle and requirements of animal tissue culture.

OR

(3)

Briefly comment on the following :

- (a) Disinfectant
- (b) Aseptic condition
- (c) Totipotent
- (d) Explant

Unit-V

5. Discuss the enzyme purification methods and point out its significance.

OR

Write short notes on the following :

- (a) Protein sequencing
- (b) Radioisotope techniques
