M.Sc-Biotech-IIS- (2.2)

2017

Time: 2 hours

Full Marks: 40

The questions are of equal value.

Answer all questions.

Give labelled diagrams wherever necessary.

(Microbiology)

1. What role did Microbiology play in Biotechnology?

Or

Write short notes on the following:

- (a) Cell wall and cell membrane synthesis
- (b) Gas vesicles.
- 2. Describe the theory and practice of sterilization.

Write short notes on the following:

- (a) Microbial media
- (b) Microbial interactions.

3. Describe the measurement of growth and growth yields.

Or

Write short notes on the following:

- (a) Maintenance of cultures
- (b) Effect of alkalinity on growth.
- 4. Describe the mode of action of antibiotics.

Or

Write short notes on the following:

- (a) Disease reservoirs
- (b) Tuberculosis.
- 5. Describe the structure of transposable elements and its transcription.

Or

Write short notes on the following:

(2)

- (a) Biochemical basis of mutations
- (b) Viroids and prions.