

(MCB2S)

B.Sc. DEGREE EXAMINATION,
MARCH/APRIL, 2020.

(1319-2)

(Regular)

V193016 115.

First Year – Second Semester

Part II – Micro Biology

Paper II – MICROBIAL BIOCHEMISTRY AND
METABOLISM

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 5 = 25 marks)

Short answer questions.

Answer any FIVE of the following.

1. ✓ Phospholipids
2. Nitrogenous bases
3. ✓ Paper chromatography
4. Principle of centrifugation
5. Autotrophs
6. ✓ Lock and key models
7. Biomass
8. Electron transport

SECTION B — (5 × 10 = 50 marks)

Essay questions

Answer ALL of the following questions.

9. (a) ✓ Describe structure and functions of lipids.

Or

- (b) Describe the structure of nucleic acids.

10. (a) ✓ Describe the principle, methodology and applications of thin layer chromatography.

Or

- (b) Describe the principle, working methodology and applications of Visible spectroscopy.

11. (a) Explain inhibition of enzyme activity.

Or

- (b) Describe the properties and classification of enzymes.

12. (a) Write an account on microbial growth.

Or

- (b) Describe the types and preparation of growth media.

13. (a) Describe Glycolysis and its significance.

Or

- (b) Write an account on lactic acid fermentation.