

THREE YEAR BSCS (CBCS) DEGREE EXAMINATION, APRIL 2018.

SECOND SEMESTER

Part II – Microbiology

Paper II – MICROBIAL BIOCHEMISTRY AND METABOLISM

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer any FIVE questions.

Draw labelled diagram wherever necessary.

(Marks : 5 × 5 marks = 25 marks)

1. Unsaturated fatty acids.
2. Phospholipids.
3. Paper Chromatography.
4. Centrifugation.
5. Coenzymes.
6. Mechanism of enzyme action.
7. Nutritional groups of microorganisms.
8. Electron transport.

SECTION – B

Answer FIVE of the following.

Draw labeled diagrams wherever necessary.

(Marks : 5 × 10 marks = 50 marks)

9. (a) Explain the classification and general characteristics of carbohydrates.
Or
(b) Write about the structure of DNA.
10. (a) Describe about spectrophotometry.
Or
(b) Write an essay on Gel electrophoresis.

11. (a) Discuss about the factors affecting catalytic activity.

Or

- (b) Explain about inhibition of enzyme activity.

12. (a) Describe about growth media for microbial growth.

Or

- (b) Write about the methods for measuring microbial growth.

13. (a) Explain about TCA cycle.

Or

- (b) Discuss about fermentation.
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