

THREE YEAR BSCS (CBCS) DEGREE EXAMINATION, APRIL 2018

FOURTH SEMESTER

Part II – Biochemistry

INTERMEDIARY METABOLISM

Time : 3 Hours

Max. Marks : 75

SECTION – A

Answer any FIVE questions.

Each question carries 5 marks.

(Marks : 5×5 marks = 25 marks)

1. Gluconeogenesis.
2. Pasteur effect.
3. Glycolytic pathway.
4. Ketogenesis.
5. Transamination.
6. Structure of cholesterol.
7. Ketogenic amino acids.
8. Nitrogenase system.

SECTION – B

Answer ONE question from each Unit.

Each question carries 10 marks.

(Marks : 5×10 marks = 50 marks)

UNIT – I

9. Describe about the light reaction of photosynthesis.

Or

10. Explain about citric acid cycle (TCA) and its regulation.

UNIT – II

11. Describe Biosynthesis of Triacyl glycerol and lecithin.

Or

12. Explain the catabolism of fatty acids by β – oxidation.

UNIT – III

13. Write about the biosynthesis of creatine.

Or

14. Describe urea cycle and its regulation.

UNIT – IV

15. Describe about the synthesis and regulatory mechanism of glutamine.

Or

16. Explain the mechanism of Biological Nitrogen fixation.

UNIT – V

17. Describe about the biosynthesis of Heme.

Or

18. Write about the Biosynthesis of purines and pyrimidines.
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