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FACULTY OF SCIENCE

B.Sc. IV-Semester (CBCS) Examination, May / June 2018

Subject: Biochemistry

Paper – IV Intermediary Metabolism

Max.Marks: 80

13

11

12

Time: 3 Hours

PART – A (5x4 = 20 Marks) [Short Answer Type]

Note: Answer any five of the following questions.

- Decarboxylation of amino acids
- 2 Maple syrup urine disease Mandament de different agreements different
- 3 Pasteur effect
- A Anaplerotic reactions
- 8 Regulation of cholesterol synthesis
 - 6 Elongation of fatty acids in mitochondria
- 7 Gout
- 8 Catabolism of pyrimidines

PART - B (4x15 = 60 Marks) [Essay Answer Type]

Note: Answer all questions from the following.

- 9 (a) Describe the reactions of urea cycle. Add a note on its regulation.
 - b) Write in detail about:
 - i) Metabolism of aspartic acid
 - ii) In born errors of aromatic amino acids
- 10 a) Write in detail about glycogenolysis.
 - b) What is photo synthesis? Discuss the various light reactions in detail.
 - > 11 a) Describe the stages in the biosynthesis of cholesterol.
 - Write briefly about β oxidation and its regulation.
 - 12 a) discuss the denovo pathway for purine biosynthesis.
 - b) Write briefly about:
 - i) Lesch-Nyhan's syndrome
 - ii) Catabolism of purine.