

## C 4301

B.Sc (Three Year) DEGREE EXAMINATION, MARCH/APRIL 2017.

End Semester Examination

Fourth Semester

PART II — Biochemistry

INTERMEDIARY METABOLISM

*Time : 3 Hours*

*Max. Marks : 70*

### PART — A

Answer any FIVE of the following questions. **(5 × 4 = 20 Marks)**

1. C<sub>4</sub> pathway
2. Ketogenesis
3. Transamination
4. Nitrogenase.
5. Heme Degradation
6. Pasteur effect
7. Biosynthesis of cholesterol
8. Deamination.

### PART — B

Answer ALL questions. **(5 × 10 = 50 Marks)**

9. (a) Write an essay on citric acid cycle?  
Or  
(b) Discuss disorders of carbohydrate metabolism?
10. (a)  $\beta$  oxidation of fatty acids explain?  
Or  
(b) Denovo synthesis of fatty acids explain.

Turn Over

11. (a) Explain in detail about Urea cycle.

Or

(b) Discuss inborn errors of amino acid metabolism.

12. (a) Explain biological nitrogen fixation.

Or

(b) Explain regulatory mechanism of glutamine synthetase.

13. (a) Biosynthesis of purine by salvage pathway.

Or

(b) Explain in detail about catabolism of pyrimidines.

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