Exam. Code : 107404 Subject Code : 1676

B.Sc. (Bio Technology) 4th Sem. (Batch 2020-23)

BIOCHEMISTRY-IV

(Metabolism of Proteins And Nucleric Acid)

Paper-BTL253

Time Allowed—3 Hours]

[Maximum Marks-40

Note:—Attempt FIVE questions in all, selecting at least
ONE question from each section. The fifth question
may be attempted from any section. All questions
carry equal marks.

SECTION-A

- What are glucogenic amino acids? Discuss the degradation of any two essential glucogenic amino acids.
- (a) Discuss the role of transamination reactions in amino acid catabolism.
 - (b) Write a note on Urea Cycle and its importance.

4+4

SECTION-B

 Discuss biosynthesis and regulation of essential aromatic amino acids.

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(Contd.)

- (a) Write a note on regulation of amino acid biosynthesis by feedback inhibition.
 - (b) What are essential amino acids? Write the name of starting material for the biosynthesis of any eight essential amino acids. 4+4

SECTION-C

- 5. Write a note on biosynthesis of purines. 8
- 6. Describe :-
 - (a) Biosynthesis of pyrimidines
 - (b) Regulations of nucleotide biosynthesis. 4+4

SECTION-D

- Discuss degradation of purines to various nitrogenous excretory products.
- 8. (a) Explain salvage pathway
 - (b) Write a note on degradation of pyrimidines. 4+4