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25-BC-42

**M.Sc. IV SEMESTER [MAIN/ATKT] EXAMINATION
MAY - JUNE 2025**

BIOCHEMISTRY
Paper - II
[Metabolism - II]

[Max. Marks : 75]

[Time : 3:00 Hrs.]

[Min. Marks : 26]

Note : Candidate should write his/her Roll Number at the prescribed space on the question paper.
Student should not write anything on question paper.
Attempt all five questions. Each question carries an internal choice.
Each question carries **15 marks**.

Q. 1 Explain Krebs-Henseleit cycle and its regulation.

OR

Write notes on -

- i) Digestion of protein.
- ii) Reactions involved in removal of ammonia from amino acids.

Q. 2 Describe in detail about glycolytic amino acids.

OR

Write notes on -

- i) One carbon metabolism
- ii) Inborn errors associated with amino acids metabolism.

Q. 3 Describe catabolism of branched chain amino acids.

OR

Describe the catabolism of Aspartate and lysine.

Q. 4 Describe the biosynthesis of purine nucleotide and add a note on Gout.

OR

P.T.O.

Write notes on -

- i) Structure and regulation of ribonucleotide Reductase.
- ii) Inhibitors of nuclei acid biosynthesis.

Q. 5 Describe the absorption, biological role and deficiency deborders of the following mineral -

- i) Zn
- ii) Cu

OR

Explain toxic effects of Hg and As in human body.

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