

QP Code:103103

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Biochemistry
(MD) November 2025**

Paper III – Nutrition and Metabolism

Time: 3 hrs

Max marks:100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essay: (20)

1. Garrod's tetrad and the metabolic pathways involved in it

Short essays: (8x10=80)

2. Digestion and absorption of lipids. Add a note on malabsorption syndrome
3. Metabolic alterations in starvation
4. Regulation of purine and pyrimidine metabolism and their interrelationship
5. Detoxification of xenobiotics – types with suitable example
6. Porphyria, types and enzyme defects with biochemical findings
7. Hyper vitaminosis
8. Disorders associated with collagen biosynthesis
9. Oxidative phosphorylation and Chemiosmotic theory
