

QP Code:103103

Reg. No.:.....

**PG Degree Regular/Supplementary Examinations in Biochemistry
(MD) May 2021**

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. Define inborn errors of metabolism. Describe in detail inborn errors of carbohydrates, lipids, proteins, nucleic acids and minerals.

Short essays:

(8x10=80)

2. Role of free radicals in pulmonary disease
3. Obesity
4. Maple syrup urine disease
5. Urinary metabolites in vitamin deficiency
6. Importance of chromium in diet
7. Explain the mechanism of muscle contraction
8. The steps of degradation of purine. Add a note on causes and features of gout
9. Role of insulin to maintain glucose levels in well fed conditions
