

QP Code:103103

Reg. No.:.....

**PG Degree Supplementary Examinations in Biochemistry (MD)**  
**January 2024**

**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. Discuss risk factors, genetic changes, metabolic derangements and alterations in hormonal regulations of Adipose tissue metabolism seen in Obesity.

**Short essays:**

**(8x10=80)**

2. Total parenteral nutrition.
3. Blood calcium homeostasis.
4. Metabolic role and deficiency manifestations of vitamin D.
5. Pyrimidine synthesis and degradation.
6. Transport of absorbed lipids from intestine to other parts of the body.
7. Metabolism in the Lens of Eye.
8. Laboratory diagnosis of porphyrias.
9. Stages of Xenobiotics.

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