

[MBBS 0924]

SEPTEMBER 2024

Sub. Code : 6055

**M.B.B.S. DEGREE EXAMINATION**  
(For the candidates admitted from the Academic Year 2020 -2021 Onwards)

**FIRST PROFESSIONAL – (CBME) - SUPPLEMENTARY**  
**PAPER I – BIOCHEMISTRY**  
*Q.P. Code: 526055*

**Time: Three hours****Maximum : 100 Marks (80 Theory + 20MCQs)****Answer All Questions****I. Essay:****(2 x 15 = 30)**

1. Define Gluconeogenesis. What are the precursors of Gluconeogenesis? Write the overview of Pathway of Gluconeogenesis with key enzymes.
2. A 9-year-old girl presented with muscle pain and cramps, tingling of hands and feet and recurrent carpopedal spasm. She is a strict vegetarian, not taking milk and milk products. On general examination, she is normal. On investigation, Serum Calcium – 6.5mg%.
  - a) What is the probable diagnosis?
  - b) What is the normal Serum Calcium level?
  - c) Explain the homeostasis of Calcium in the blood.

**II. Write short notes on:****(10 x 5 = 50)**

1. Balanced Diet.
2. Amphibolic nature of Kreb's cycle.
3. Physiological role and deficiency manifestation of Riboflavin.
4. How will you reveal the increased Blood sugar level to the patient and need for medication?
5. Structure of Mitochondria.
6. Types of Enzyme Inhibition with suitable examples.
7. Reactions and Regulation of Glycogenolysis.
8. Galactosemia.
9. Clinical Importance of Liver Enzymes.
10. Hemolytic Disease of Newborn.

\*\*\*\*\*