

[MBBS 0824]

AUGUST 2024

Sub. Code : 6055

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

**FIRST YEAR – (CBME)**  
**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. Explain the Metabolic Derangements in Diabetes Mellitus. Write a note on ADA criteria for Diagnosis of Diabetes Mellitus.
2. A 24 years old woman presented with severe abdominal pain, nausea, vomiting, palpitation and hypertension. Patient had hallucination and seizures. She had similar attacks in the past. She did not have photosensitivity. Urine was positive for Porphobilinogen.
  - a) What is the probable diagnosis?
  - b) Describe the pathway of Heme synthesis and Regulation.
  - c) Why did the patient not have Photosensitivity?

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

1. Importance of Dietary Fibre.
2. Anaplerotic role of Kreb's cycle.
3. Physiological role and deficiency manifestation of Biotin.
4. Sources, RDA and deficiency manifestation of Vitamin B12.
5. ATP Synthase.
6. Specificity of Enzymes.
7. Glycogenesis – Reaction and Regulation.
8. Cardiac Markers.
9. Lactose intolerance.
10. Discuss the structure and functions of nucleus with suitable illustration.

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