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[MBBS 0825] AUGUST 2025 Sub. Code: 7053

M.B.B.S. DEGREE EXAMINATION

(For the candidates admitted from the Academic Year 2024-2025)

FIRST PROFESSIONAL – (CBME) PAPER I – PHYSIOLOGY

Q.P. Code: 527053

Time: Three hours Maximum: 100 Marks (80 Theory + 20 MCQs)

Answer All Questions Draw neat labeled diagrams wherever necessary

I. Essay:

 $(1 \times 10 = 10)$

- 1. A 12 years old boy was brought to the emergency department with history of fever, poor intake of foods, breathlessness and loss of consciousness for past 1 day. His father revealed that he has been complaining of intense thirst in spite of drinking plenty of water. There is also history of gradual loss of weight over the past 3 months. His blood reports are as follows: Random Blood Sugar: 650 mgs/dl, urine Ketones 4+, with a normal renal function tests.
 - a) What is the diagnosis? (1)
 - b) What are the physiological mechanisms regulating blood glucose level in human body? (5)
 - c) Tabulate the actions of insulin. (2)
 - d) How will you differentiate between the different types of diabetes? (2)

II. Reasoning out short notes:

 $(2 \times 5 = 10)$

- 1. Rigor Mortis occurs after death Reason out.
- 2. Peristalsis in gastrointestinal tract occurs in a unidirectional manner from oral to aboral direction Reason out.

III. Write short notes on:

 $(10 \times 6 = 60)$

- 1. Apoptosis.
- 2. Genesis of RMP.
- 3. Megaloblastic Anaemia.
- 4. Properties of smooth muscle.
- 5. Achalasia cardia.
- 6. Factors regulating GFR.
- 7. Artificial Kidney.
- 8. Hypothyroidism.
- 9. Menstrual cycle.
- 10. Role of an Indian Medical Graduate.
