

First Year MBBS Examination

I MBBS Biochemistry Paper 1

Time: 3 hours

Max

Marks: 50

Instructions: 1. Answer to the points. 2. Figure to the right indicates marks. 3. Use separate answer books for each section. 4. Draw diagrams wherever necessary. 5. Write legibly.

Section 1

1. Give an account of: (any two) (10)
 - a. Write briefly about isoenzyme and their clinical significance
 - b. Write about normal acid base mechanism in our body
 - c. Write briefly about homeostasis of body fluids in human
2. Write Short notes on (any three) (9)
 - a. Kidney function test
 - b. Gluconeogenesis (A. 135) (C.258)
 - c. Plasma membrane transport
 - d. Tumor markers (A. 666) (C.691)
 - e. Disaccharides
3. Write Short notes on (any two) (6)
 - a. Coenzymes and biochemical reactions

b. Porphyria

c. Chromatography (A. 434) (C.719)

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Section 2

1. Give an account on (any two) (10)
 - a. Describe reactions energetic importance and regulation of Citric acid cycle
 - b. What are Lipoproteins? Explain the role of HDL in lipoprotein metabolism (A. 217) (C. 317)
 - c. Explain electron transport chain and its inhibitors (A. 315, 318) (C. 226,232)
 2. Write Short notes on (any three) (9)
 - a. Significance of HMP shunt (A. 144) (C. 270)
 - b. Structure and functions of Immunoglobulins (A. 649) (C.186)
 - c. Air pollutants and their adverse effects (A. 534) (C.663)
 - d. Oncogenic viruses
 - e. Ketone bodies
 3. Write notes of (any six): A 45 year old obese business man with complaint of excessive hunger, thirst urination and non-healing injury of lower leg was consulted by physician before starting treatment suggest. (6)
 - a. What is the problem diagnosis justify
 - b. What investigations to be done in blood for confirmation of diagnosis?
 - c. What investigations to be done in urine sample?
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- d. Suggest special investigations for monitoring during treatment.
- e. What is the reason for excessive hunger, thirst and urination?
- f. What is the reason for non-healing injury?
- g. Indicate other abnormalities likely to be developed if disease is not properly managed.
- h. What advice regarding diet to be given?

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