

Date: 12-10-2015 G 2835

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. Explain enzyme Inhibitors with suitable examples
 - b. Degradation of heme & various types of Jaundice (A. 332) (C. 216)
 - c. Glycogen storage diseases (A. 144) (C.269)
2. Write Short notes on (any three) (9)
 - a. Thalassemia (A. 347) (C. 206)
 - b. ATP
 - c. Coenzymes
 - d. Glycosaminoglycan (A. 98) (C.22)
 - e. Prostaglandins (A. 243) (C.644)
3. Write Short notes on (any two) (6)
 - a. Bicarbonate buffer

- b. ELISA technique (A. 437) (C.729)
- c. Metabolic acidosis (A. 402) (C.481)

Section 2

- 4. Give an account on (any two) (10)
 - a. Discuss the biochemical mechanism of regulation of blood Glucose level.
 - b. What are ketone bodies? How they are synthesized and utilized in the cell?
 - c. Explain Krebs cycle and its regulation
- 5. Write Short notes on (any three) (9)
 - a. Discuss electron transport chain and its inhibitors (A. 315, 318) (C. 226, 232)
 - b. Cells of Immune systems
 - c. Tumour markers with suitable examples (A. 666) (C.691)
 - d. Lipoproteins and atherosclerosis (A. 217) (C. 317)
 - e. Water pollution (C. 664)
- 6. Write Short notes of (any six) (6)
 - a. Role of dinitrophenol as disinfectant
 - b. Neonates are more susceptible to develop Vitamin K deficiency
 - c. Dyslipidemia in diabetes mellitus
 - d. Hyperuricemia is associated with Vim-n-Gierke's disease (A. 548)(C. 394
 - e. Estrogen and breast cancer in women
 - ~~f. Incidence of Pellagra is higher in people whose~~

staple food is maize

- g. Lipotropic agents and fatty liver (A. 204)
(C.322)
- h. High fiber diet is beneficial for diabetics

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