

Date: 10-01-2011

0819E373

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 of the following (10



- a) Liver function tests and its clinical significance (A. 361) (C.453)
- **b)** Disturbances of acid-base balance with laboratory findings (A. 401) (C.479)
- c) Competitive inhibition and its therapeutic importance (A. 63) (C.92)

2. Write Short notes of (any three)

(9)

- a) Mutarotation (A. 90) (C.14)
- **b)** Phospholipids (A. 108) (C.34)
- c) Porphyrias (A. 328) (C.212)
- d) Iso enzymes (A. 69) (C. 109)
- e) Similarities and differences between starch and glycogen (A. 96) (C.20,21)

3.Discuss Any TWO

(6)



- a) Bicarbonate buffer system in the blood and significance of Henderson-Hasselbalch equation (A. 398) (C.475)
- **b)** ELISA (A. 437) (C.729)
- c) Creatinine clearance test (A. 374) (C.461)

Section 2

4. Write Short notes on (any two)

- a) Hexose monophosphate shunt and its significance (A. 144) (C.270)
- b) Ketone bodies generation and utilization (A. 205) (C.294)
- c) Glycogen metabolism and its hormonal regulation (A. 140) (C183)

5.Write Short notes on (any two)

- a) Detoxification by conjugation mechanisms (A. 525) (C.640)
- **b)** Components of electron transport chain and sites of ATP synthesis (A. 315) (C.226)
- c) Tumor markers (A. 666) (C.691)
- d) Functions of plasma proteins (A. 385) (C.183)
- e) Malate-Aspartate shuttle (A. 136) (C.234)

6. Give your comments with justification of Any SIX: (6)

- a) Lead toxicity causes anemia.
- **b)** Cataract is seen in children suffering from galactosemia.
- c) Ketone bodies are not utilized by liver.



- d) Defective synthesis of VLDL may result in fatty liver.
- e) Glucose 6 phosphate dehydrogenase causes anemia.
- **f)** B-oxidation of odd chain fatty acid gives propionic acid.
- **g)** Streptokinase is used in treating acute myocardial infarction.
- h) Glucagon as hyperglycemic hormone

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