

Date: 08-01-2014

0819E373

First Year MBBS Examination

I MBBS Biochemistry Paper 1

Time: 3 hours

Max Marks: 50

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

- a) Factors affecting enzyme activity (10)
(A. 60) (C.88)
 - b) What is acidosis? Describe metabolic and respiratory acidosis. (A. 402) (C. 481)
 - c) Electrophoresis serum proteins (A. 384)
(C.724)
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2. Write Short notes of (any three)

- a) Lipid peroxidation (A. 428) (C. 656) (9)**
- b) Phospholipids (A. 108) (C.34)**
- c) Enzyme Inhibitions (A. 63)(C.92)**
- d) Disaccharides (A. 94)(C.18)**
- e) Acute intermittent porphyria (A. 328) (C.212)**

3. Discuss Any TWO

- a) Blood buffer system (A. 398) (C.475)(6)**
- b) Homeostasis of body fluid (A. 411) (C.469)**
- c) Plasma membrane transport (A. 15) (C.651)**

Section 2

4. Write Short notes on (any two)

- a) Gluconeogenesis (A. 135) (C.258) (10)
- b) Biochemical change in starvation (A. 122) (C.383)
- c) Fatty acid oxidations (A. 194) (C.287)

5. Write Short notes on (any two)

- a) IgG (A. 649) (C.188) (9)
- b) Chemi-osmotic theory of oxidative phosphorylation (A.318) (C.228) Lead poisoning (A. 532) (C.666)
- c) Oncogene (A. 664) (C.687)
- d) Inhibitors of electron transport chain (A. 320) (C.232)

6. Give your comments with justification of Any SIX:

- a) Fructose is not a stereo isomer of glucose. (6)
- b) Enzyme works by reducing activation energy of a reaction.
- ~~c) Phospholipids are amphipathic in nature.~~

- d)** Mucopolysaccharides retain water in extra cellular space.
- e)** Bicarbonate buffer is the front line defense for acid base balance in blood.
- f)** Carbon dioxide in atmosphere is responsible for "green house effect".
- g)** Unsaturated fatty acid in the cell membrane is responsible for fluidity of membrane.
- h)** Carbon mono oxide in exhaust gas of vehicle is harmful.