

0819E373

First Year MBBS Examination

I MBBS Biochemistry Paper 1

Date: 11-01-2012 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 (10)

a) Isoenzymes and their clinical

importance (A. 69, 78) (C.112)

b) Role of kidney in acid base regulation (A. 399) (C.477)

c) Principle and significance of Van Den Bergh's reaction (A. 359) (C.455)

2. Write Short notes of (any three)

(9)

a) Essential fatty acids (A. 241) (C.509)

b) Glycosides (A. 93) (C.17)

c) Allosteric enzymes (A. 66) (C.95)

d) Fluid mosaic model of membrane (A. 13) (C.650)

e) Radioisotopes of medical importance (A. 683) (C.717)

3. Discuss Any TWO (6)

a) Active transport and passive transport (A. 15) (C.651)

b) Radioimmunoassay (A. 436) (C.729)

c) Acute intermittent porphyria (A. 328) (C.212)

Section 2

4. Write Short notes on (any two) (10)

a) Gluconeogenesis (A. 135)

(C.258)

b) Beta oxidation of fatty acids (A. 194) (C.287)

c) Oxidation of pyruvate (A. 135) (C.252)

5. Write Short notes on (any two)
(9)

a) Regulation of Citric acid cycle.
(A. 308) (C.257)

b) Immunoglobulins (A. 649) (C.186)

c) Oxidative phosphorylation (A. 318) (C.228)

d) Antioxidants (A. 429) (C.658)

e) Cori cycle (A. 134) (C. 261)

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

- a) Enzymes are proteins**
 - b) Sucrose is also called as invert sugar.**
 - c) Bile salts are required for digestion of lipids.**
 - d) Cyanide causes instantaneous death.**
 - e) Acetyl CoA is a common metabolic intermediate**
 - f) Phytanic acid accumulates in alpha oxidation defect.**
 - g) Lysophospholipid is formed during**
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snake bite.

h) People with glucose 6-phosphate dehydrogenase deficiency are resistant against malaria.

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