Date: 10-07-2013

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 **(10)**

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

b) Principle and significance of Van Den Bergh's reaction(A.332) (C.455)

c) Isoenzymes and their clinical significance (A. 69) (C.112)

2. Write Short notes of (any three) **(9)**

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

b) Essential fatty acid (A. 242) (C.509)

c) Allosteric enzymes (A. 66) (C.95)
d) Radioisotopes of medical significance (A. 682) (C.717)
e) Fluid mosaic model of membrane (A. 13) (C.650)

3. Discuss Any TWO (6)

a) Acute intermittent porphyria (A. 328) (C.212)
b) Beer-Lambert's Law (A. 437) (C726)
c) Active and passive transport (A. 15) (C. 651)

Section 2

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

a) Steps of beta-oxidation of fay acids (A. 194) (C.287)
b) Oxidation of pyruvate (A. 135) (C.252)
c) Key reactions of Gluconeogenesis (A. 135) (C.258)

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

a) Immunoglobulins (A. 649) (C.186)
b) Antioxidants (A. 429) (C.658)
c) Cori cycle (A. 134) (C. 261)
d) Substrate level phosphorylation (A. 313) (C.224)
e) Regulation of citric acid cycle (A. 308) (C.257)

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

a) Bile salts are required for digestion of lipids.
b) Enzymes are proteins.
c) Sucrose is called as invert sugar.
d) Cyanide causes instantaneous death.
e) People with Glucose 6-phosphate deficiency are resistant against malaria.
f) Phytanic acid cannot be oxidized by beta-oxidation without prior modification of beta carbon atom.
g) Acetyl CoA is a common metabolic intermediate.
h) Lysolecithin is formed during snake bite.