

0819E373

**First Year MBBS Examination
I MBBS Biochemistry Paper 1**

Time: 3 hours

Max Marks: 50

Date: 08-01-2016

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) Metabolic acidosis (A. 402) and
metabolic alkalosis (A. 402) (C.481 &
482)

~~b) Enzyme inhibition (A. 63) (C.92)~~

c) Clearance tests and their significance
(A. 374) (C.460)

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

- a) Functions of phospholipids (A. 108)
(C. 34)
- b) Functions of glycosaminoglycan's. (C. 22) (A.98)
- c) Difference between starch and glycogen (A. 96) (C. 20)
- d) Diagnostic significance of enzymes (A. 53) (C.106)
- e) Heme degradation (A. 330) (C. 214)

3. Discuss Any TWO (6)

- a) Difference between diffusion, facilitated transport and active transport (A. 15) (C. 651)
- b) Electrophoresis and its application in medicine (A. 432) (C. 724)
- c) Types of jaundice (A. 332) (C. 216)

Section 2

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

- a) Ketogenesis (A. 206) (C. 294)
- b) Blood glucose regulation (A. 159) (C.676)

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

- a) Fatty liver (A. 204) (C.322)
- b) Oxidative phosphorylation (A. 318) (C.228)
- c) tumor markers (A. 666) (C.691)
- d) structure and functions of IgG (A. 649) (C.186)
- e) Antioxidants (A. 429) (C.658)
- f) Organic pollutants

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

- a) Conditions of hyperglycemia
- b) Causes of respiratory acidosis (c.482)
- c) Molecular defect in sickle cell anemia
- d) heat stroke
- e) Applications of colorimetry
- f) Zellweger's syndrome
- g) Therapeutic enzymes
- h) deficiency manifestations of essential fatty acids. (A. 242)

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