

**Date: 03-08-2017**

**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. Write short notes on the following (any two) (10)**

1. Rapaportluebering cycle and its significance
  2. Atherosclerosis (A.228)(C. 317, 326)
  3. glycogen storage diseases (A. 144) (C.269)
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**2. Write Short notes of (any three) (9)**

1. Enzyme specificity (A. 68) (C.95)
2. Allosteric Enzymes (A. 66) (C.95)
3. Functions of phospholipids (A. 108) (C. 34)
4. Composition and significance of hyaluronic acid

**3. Discuss Any TWO (6)**

1. Characteristics of active transport(A. 15) (C. 651)
2. PCR (Polymerase chain reaction) Technique(A. 612)(C.594)
3. Anion gaps and its significance(A. 403) (C.480)

**Section 2****1. Write Short notes on (any two) (10)**

1. Hormonal regulation of blood sugar
2. HMP shunt(A. 144)(C. 270)
3. Action of cholesterol lowering statins

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

1. Structure and functions of Igm
2. Tumor markers (A. 666) (C.691)
3. Components of electron transport chain(A. 315) (C. 225)
4. Water Pollution (C.664)

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

1. Force required for oxidative phosphorylation
2. Role of Streptokinase as therapeutic agent
3. Define isoenzymes(A. 79) (C.112)
4. Causative factor in diabetic cataract
5. Use of Cardiac glycosides
6. Renal threshold for Glucose
7. Role of Lecithin cholesterol acyl Transferase (ICAT enzyme)
8. Precursor fatty acid for formation of Prostaglandins