

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)**

- a) Rapaportluebering cycle and its significance
 - b) Atherosclerosis (A.228)(C. 317, 326)
 - c) glycogen storage diseases (A. 144) (C.269)
-

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

- a) Enzyme specificity (A. 68) (C.95)
- b) Allosteric Enzymes (A. 66) (C.95)
- c) Functions of phospholipids (A. 108) (C. 34)
- d) Composition and significance of hyaluronic acid

3. Discuss Any TWO (6)

- a) Characteristics of active transport (A. 15) (C. 651)
- b) PCR (Polymerase chain reaction) Technique (A. 612) (C. 594)
- c) Anion gaps and its significance (A. 403) (C. 480)

Section 2**4. Write Short notes on (any two) (10)**

- a) Hormonal regulation of blood sugar
- b) HMP shunt (A. 144) (C. 270)
- c) Action of cholesterol lowering statins

5. Write Short notes on (any three)

- a) Structure and functions of Igm (9)
- b) Tumor markers (A. 666) (C.691)
- c) Components of electron transport chain(A. 315) (C. 225)
- d) Water Pollution (C.664)

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

- a) Force required for oxidative phosphorylation
- b) Role of Streptokinase as therapeutic agent
- c) Define isoenzymes (A. 79) (C.112)
- d) Causative factor in diabetic cataract
- e) Use of Cardiac glycosides
- f) Renal threshold for Glucose
- g) Role of Lecithin cholesterol acyl Transferase (ICAT enzyme)
- h) Precursor fatty acid for formation of Prostaglandins