

**Date: 10-07-2015**

**0819E373**

**First Year MBBS Examination**

**I MBBS Biochemistry Paper 1**

**Time: 3 hours**

**Max Marks: 50**

**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) Hexose monophosphate shunt (A. 144) (C.270)**

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**b) Detoxication process (A. 525) (C. 638)**

**c) Role of lipids in heart disease (A. 228) (C.315)**

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

**a) Phospholipids (A. 108) (C. 34)**

**b) Glycogen storage diseases (A. 144) (C.269)**

**c) Role of competitive inhibitors in medicine (A. 63) (C.94)**

**d) Fatty liver (A. 204) (C.322)**

**e) Catabolism of heme (A. 330) (C. 214)**

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

**a) Respiratory mechanism for pH regulation (A. 399) (C. 476)**

**b) Kidney function tests (A. 370)  
(C.460)**

**c) Gel electrophoresis (A. 432) (C. 725)**

## **Section 2**

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

**a) Anaerobic glycolysis (A. 128)  
(C.245)**

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

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

**c) Lipoprotein metabolism (A. 217) (C.  
317)**

**a) Soil pollution**

**b) Electron transport chain (A. 315)  
(C. 225)**

**c) Carcinogens (A. 662) (C.667)**

**d) Passive immunity (A. 652)**

**e) Tumour markers (A. 666) (C.691)**

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

**a) Km value**

**b) Essential fatty acids (C.509)**

**c) Jaundice (C.216)**

**d) Serum amylase**

**e) Fasting blood glucose**

**f) Antibody**

**g) Body buffers (A.398)**

**h) Glucokinase**