

**Date: 11-07-2014**

**0819E379**

**First Year MBBS Examination**

**I MBBS Biochemistry Paper 2**

**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) Gout (A. 548) (C. 394)**

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

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c) Vitamin K deficiency (A. 461) (C.131)

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

a) Gene therapy (A. 604) (C.625)

b) Calcium (A. 492) (C. 404)

c) Pyrimidine degradation (A. 551)  
(C.400)

d) Compare DNA and RNA (A. 556, 578)  
(B. 248)

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

a) Mechanism of action of insulin (A.  
165) (C.672)

b) Describe blood pH role in medicine (A.  
301)

c) FIGLU test (A. 297) (C.152)

## **Section 2**

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

**a) Hormones produced from amino acids (A. 291,292) (C.348)**

**b) Use of PCR in Medicine (A. 612) (C. 594)**

**c) Hypercholesterolemia (A. 235) (C.315)**

**d) Write Short notes on (any two)**

#### **6. Six out of eight; (6)**

**a) Catecholamines**

**b) Detoxification (A. 525) (C. 640)**

**c) Alcoholism**

**d) Kidney function tests**

**e) Nongenetic role of nucleotides**

**f) Genetic code (A. 580) (C.551)**

**g) Branched chain amino acid disorders**

**h) Scurvy (C134)**

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