

SS/MBBS/BIO-I/7-14**First Professional MBBS Examination****2014****(July)****BIOCHEMISTRY****Paper-I****Full Marks: 50****Time: 2 hours**

**The figures in the margin indicate
full marks for the questions**

Write the answers to the two Halves in separate books**Answer all questions****FIRST HALF**

1. Name the antioxidant vitamins. Write elaborately the functions of vitamin C.

(1+7=8)

2. Write short notes on any three of the following: (4 x3 = 12)

- (a) Active transport
- (b) Applications of radioisotope in medicine
- (c) Isomerism
- (d) Nucleosome

3. A known patient of sickle cell trait gets infected by Plasmodium falciparum.

- (a) Can the parasite survive in the particular patient? If not, why? 3
- (b) What do you mean by sickle cell trait? 2

SECOND HALF

4. Give schematic representation of absorption of iron from GI tract and its transport. Mention the factors affecting iron absorption. [(3+3)+2=8]

5. Write short notes on any three of the following:

- (a) Allosteric enzyme
- (b) Biological value of protein
- (c) Harmful effects of free-radical
- (d) Components of immune system

6. A 15-year-old boy complains of vomiting and abdominal discomfort for last 1 month. Yellow discolouration of skin and sclera are detected. Colour of urine is deep yellow and that of stool is clay coloured.

- (a) Give a probable diagnosis. 1
- (b) Explain the cause of colour of urine and stool 2
- (c) Give a list of liver function tests required for this patient. What result do you expect from the tests? 2
