



[KZ 4254]

Sub. Code: 4254

FIRST B.PHARM. EXAMINATION

Paper IV – BIOCHEMISTRY

Q.P. Code : 564254

Time : Three hours

Maximum : 100 marks

I. LONG ESSAYS

(2 x 20 = 40)

1. What are carbohydrates? Classify. Describe the Hexose Monophosphate shunt pathway and add a note on metabolic significance. (2+4+10+4)
2. What are enzymes? Classify, discuss its mechanism of action and also enzymes of clinical importance. (2+4+8+6)

II. SHORT NOTES

(8 x 5 = 40)

1. Prostaglandins.
2. Structure and functions of hemoglobin.
3. Denaturation.
4. Structure of t-RNA.
5. Phospholipids.
6. Ketone bodies.
7. Briefly discuss the composition of DNA with a suitable diagram.
8. Biochemical functions of vitamin E.

III. SHORT ANSWERS

(10 x 2 = 20)

1. Name any two markers of liver function.
2. Saponification number
3. Thalassemia.
4. What is protein efficiency ratio (PER)? Give PER value for egg protein?
5. Hyponatremia.
6. Hyperthyroidism.
7. Atherosclerosis.
8. Nucleotides.
9. Expand LDH and ACTH and write two sentences about it.
10. Give any two sources of vitamin

