

(LC 4254)

FEBRUARY 2013

Sub. Code: 4254

**FIRST B.PHARM. EXAM**

**Paper IV – BIOCHEMISTRY**

**Q.P. Code: 564254**

**Time: Three Hours**

**Maximum: 100 marks**

**(180 Min)**

**I. Elaborate on:**

**(2 x 20 = 40 marks)**

1. What is glycogen? Explain the process of glycogen breakdown and glycogen synthesis. (Glycogenolysis and glycogenesis) (2 + 9 +9)
2. Explain the various types of enzyme inhibition with suitable examples and lineweaver-burke's plots.

**II Short Notes**

**(8 x 5 = 40 marks)**

1. Essential aminoacids
2. Immunoglobulins
3. Niacin and its coenzyme function
4. Lipoproteins
5. Adenosine Triphosphate (ATP)
6. Deoxy Ribonucleic acid (DNA)
7. Cholesterol
8. Jaundice

**III Short answers**

**(10x 2 = 20 marks)**

1. Define a cell. Mention its functions
2. Name the enzymes of clinical significance
3. What is inulin? Mention its function
4. What is the significance of HMP shunt.
5. Name the phospholipids. Mention any two functions
6. Classify immunoglobulins. Give functions of any two
7. What is xerophthalmia
8. Name the group II hormones
9. Give any two differences between DNA and RNA
10. What is creatinine clearance test?

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