



(LM 4254)

FEBRUARY 2018

Sub Code: 4254

**B.PHARM. DEGREE EXAMINATION
FIRST YEAR
PAPER IV – BIOCHEMISTRY**

Q.P. Code: 564254

Time: Three hours

Maximum : 100 Marks

I. Elaborate on:

(2 x 20 = 40)

1. What is Glycogen? Explain the process of Glycogenolysis with its regulations.
2. Define Lipids. Classify Phospholipids with suitable examples. Explain the functions of Phospholipids

II. Write notes on:

(8 x 5 = 40)

1. Define and classify proteins.
2. Glycolysis.
3. Phenylketonuria.
4. Structure and functions of hemoglobin.
5. Ketone bodies.
6. Co-enzymes.
7. Transcription.
8. Glucose tolerance test.

III. Short answers on:

(10 x 2 = 20)

1. Write the importance of sodium pump.
2. What is K_m value? What does it indicate and significance?
3. What is inulin? Give its use.
4. What is carnitine and its function?
5. What is the main function of folic acid?
6. What is the function of anti-diuretic hormone?
7. What is carbamoyl phosphate synthetase II?
8. Give examples for post-translational modifications.
9. Give any two differences between DNA and RNA.
10. What are the factors that regulate plasma calcium level?

