

FEBRUARY 2011

[KY 760]

Sub. Code : 4254

FIRST B.PHARM. DEGREE EXAMINATION.

(Regulations 2009)

(Candidates admitted from 2009–10)

Paper IV — BIOCHEMISTRY

Q. P. Code : 564254

Time : Three hours

Maximum : 80 marks

I. Essay Questions : Answer any **TWO** questions. **(2 x 20 = 40)**

1. (a) What are lipids? Classify them with examples.
(b) Describe the β oxidation of fatty acids write the energetics for palmitic acid oxidation.
2. (a) Describe in detail about glycolysis with energetics and its regulation.
(b) Explain the structure of haemoglobin.
3. (a) Define enzyme and discuss the various types of enzyme inhibition with suitable examples.
(b) Describe the renal functions tests in brief.

II. Write short notes : Answer any **SIX** questions. **(6 x 5 = 30)**

1. Transport process across cell membrane.
2. Essential aminoacids.
3. Mechanism of enzyme action.
4. Prostaglandins.
5. Vitamin K.
6. Genetic code.
7. Nucleoprotein.
8. Biochemical role of calcium and iron.

III. Short Answers : Answer any **FIVE** questions. **(5 x 2 = 10)**

1. Define coenzymes and give examples.
2. Define gluconeogenesis and glycogenesis.
3. Racemic mixture and invert suga
4. Define hyperbili rubinaemia.
5. Deficiency disease of vitamin D and niacin.
6. Explain the term BM
7. Digestion of carbohydrates.
