

February 2010

[KW 706]

Sub. Code: 4181

SECOND B.PHARM. DEGREE EXAMINATION

(ReRevised Regulations)

Candidates Admitted upto 2003-04

Paper I – BIO-CHEMISTRY

Q.P. Code : 564181

Time : Three hours

Maximum : 90 marks

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

1. a) What are proteins? Classify them. Explain urea cycle in detail. (10)
b) Explain the enzyme kinetics with Michaelis-menton equation.(10)
2. a) Describe Glycolysis with its energetics. (10)
b) Write in detail about the sources, chemistry, biochemical role and deficiency diseases of thiamine. (10)
3. a) Discuss in detail about the biosynthesis of fatty acids. (10)
b) Enumerate various liver function tests and explain any two of them.(10)

II. Write Short Notes : Answer any EIGHT questions (8 x 5 = 40)

1. Walsby visual cycle.
2. Properties of carbohydrates.
3. Structure of DNA.
4. Biochemical role of thyroxine.
5. Calcium.
6. Ketosis.
7. Vitamin – C.
8. Enzyme inhibition.
9. Nutritional significance of lipids.
10. Properties of amino acids.

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

1. Examples for bile salts and bile pigments.
2. Role of carnitine in lipid metabolism.
3. Name the pyrimidine bases with their structure.
4. Rothra's test.
5. Define mutarotation.
6. Co-enzyme activities of niacin.
7. Gout.

September 2010

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Q.P. Code : 564181

Time : Three hours

Maximum : 90 marks

I. Essay Questions :

(2 X 20 = 40)

Answer any TWO questions.

1. a) Write in detail about the sources, chemistry, bio-chemical role, daily requirements and deficiency manifestations of vitamin-D.
b) Discuss the TCA cycle with its energetics.
2. a) Explain the bio synthesis of bile pigments in the body.
b) Role of Insulin
c) What are the nucleosides and nucleotides? Give examples.
3. a) Sketch urea cycle and mention the inherited disorders.
b) Discuss the metabolism of Sodium

II. Write Short Notes :

(8X 5 = 40)

Answer any EIGHT questions.

1. Clearance tests of urine.
2. Prostaglandins
3. Basal Metabolic Rate
4. Lac-Operon Concept
5. Co-Enzymes
6. Immunoglobulin
7. Nucleo Protein
8. Enzyme Inhibition
9. Digestion and absorption of Carbohydrate
10. Mode of action of drugs.

III. Short Answers:

(5X2 = 10)

Answer any FIVE questions.

1. What is specific dynamic action?
2. Significance of HMP shunt pathway.
3. What is Epimer? Give example
4. Iodine Number
5. Define Detoxication
6. Define the terms: transcription and translation
7. Give examples of bile pigments and bile salts.
