

FEBRUARY 2011

[KY 739]

Sub. Code : 4230

**FIRST B.PHARM. DEGREE EXAMINATION.**

**(Regulations 2006–2007 onwards)**

**(Common to Second B.Pharm. Paper I — Regulation 2004)**

**Paper IV — BIOCHEMISTRY**

***Q. P. Code : 564230***

**Time : Three hours**

**Maximum : 90 marks**

**I. Essay Questions :**

**Answer any TWO questions. (2 x 20 = 40)**

1. Explain the TCA cycle with pathway significance and energetics. (20)
2. (a) Explain the beta-oxidation of palmitic acid with Energetics. (15)  
(b) Write a short note on ketone bodies. (5)
3. Write in detail about the structure, source, function and deficiency manifestation of vitamin A. (20)

**II. Write short notes :**

**Answer any EIGHT questions. (8 x 5 = 40)**

1. Immunoglobulins.
2. Mucopolysaccharides.
3. Allosteric enzymes.
4. DNA.
5. Jaundice.
6. Iron.
7. Kidney function test (any two).
8. Bio chemistry of urine.
9. Absorption of lipids.
10. Cholesterol. (PTO)

**III. Short Answers :**

**Answer any FIVE questions. (5 x 2 = 10)**

1. Name the classes of enzymes.
2. Name the disaccharides.
3. Name the essential fatty acids.
4. What is mutation?
5. Name two sulfur containing amino acids.
6. Give the caloric values of nutrients.
7. What is Glucagon?

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