



[LH 4254]

AUGUST 2015

Sub. Code: 4254

**B.PHARM. DEGREE EXAMINATION**

**FIRST YEAR**

**PAPER IV – BIOCHEMISTRY**

*Q.P. Code: 564254*

**Time : Three Hours**

**Maximum : 100 marks**

**Answer All Questions**

**I. Essay:**

**(2 x 20 = 40)**

1. a) Write the classification of amino acids with examples and also write a note on the properties of amino acids.  
b) Write a note on the different levels of organization of Protein structure.
2. Describe TCA cycle. Give the significance, energetics, regulation and other names of TCA cycle.

**II. Short notes :**

**(8 x 5 = 40)**

1. Starch.
2. Phospholipids.
3. Isoenzymes.
4. Differences between DNA and RNA.
5. Diabetes mellitus.
6. Adrenal gland Hormones.
7. BMR and factors affecting BM
8. Genetic engineering.

**III. Short answers:**

**(10 x 2 = 20)**

1. Name the Immunoglobulin that crosses the placenta and which is released in allergic reactions.
2. Name two reducing Disaccharides.
3. What is Heparin and give its function?
4. Types of Thalassemia.
5. Beri-beri.
6. Name the Protein Energy Malnutrition disorders.
7. Mutations.
8. cAMP.
9. Formation of Acetyl CoA from Pyruvate.
10. How many ATPs will Glucose and Palmitic acid give respectively, on complete oxidation?

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