



[LR 1220]

DECEMBER 2020

Sub. Code: 4254

(AUGUST 2020 EXAM SESSION)

**B. PHARMACY DEGREE EXAMINATION**

**FIRST YEAR – (Regulation from 2009-2010)**

**PAPER IV – BIOCHEMISTRY**

*Q.P. Code: 564254*

**Time: Three hours**

**Answer ALL questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Classify Proteins with examples. Explain different organization of protein structure.  
b) Briefly explain about Enzyme inhibition with examples.
2. a) Explain the reactions and significance of Gluconeogenesis.  
b) Discuss the role of Phosphorous and Magnesium in human body.

**II. Write notes on:**

**(8 x 5 = 40)**

1. Write a note on Mucopolysaccharides.
2. Briefly explain the structure and functions of DNA.
3. Write the chemistry and deficiency of Vitamin – A.
4. Discuss the disorders of lipid metabolism.
5. Write short note on Tryptophan metabolism.
6. Write any two Liver function tests.
7. Write the chemistry and functions of Insulin.
8. Write a note on Sickle cell Aneamia.

**III. Short answers on:**

**(10 x 2 = 20)**

1. Disaccharides.
2. Cytochrome.
3. Coenzyme A
4. Scurvy.
5. Ketone bodies.
6. Mutagenesis.
7. Balanced diet.
8. Porphyrin.
9. Eicosanoids.
10. Trace elements.

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