

Annual Examination 2021-22
D. Pharm 1st Year
Elementary Biochemistry And Clinical Pathology

Time: 3Hrs

Max. Marks-80

Note: Attempt any five questions:

1. What are the different roles of proteins in the living system what do you understand by amino acid classify them into different categories?
2. What do you understand by the term Carbohydrate how many types of Carbohydrate explain with example?
3. What do you understand by the term plasma membrane why it is called bilayer membrane give the detailed structure of plasma membrane?
4. What are Vitamins? Classify vitamins according to their solubilities? What are the difference between vitamins and enzymes? Write the structural formula the deficiency symptoms and biochemical role of biotin
5. Describe the general functions of major and trace elements in human body and what is the importance of calcium and phosphorus in the human body?
6. Differentiate the term: Coenzymes and Holoenzymes. What are Isoenzymes and how these are useful in clinical diagnosis?
7. What do you understand by the term Glycolysis? Outline the steps involved in the conversion of Glucose to pyruvate? Describe the sequence of reaction in TCA cycle?
8. What do you understand by B-oxidation? Give the reaction of B-oxidation and describe the various steps involved in the synthesis of fatty acid?
9. What is the urea cycle? Outline the steps involved in the urea formation and disorders of protein metabolism?
10. What is the importance of blood plates in blood clotting process?