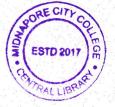
The West Bengal University of Health Sciences M.Sc. MLT in Biochemistry 1st Year September- October, 2023

Examination

Subject: Basic Biochemistry

Time: 3 hrs



Full Marks: 80

8 x 5

Attempt all questions

- 1. Answer the following questions :
 - a) State the difference between qualitative & quantitative Benedict's reagent. Define Epimer with examples. State the fate of Benedict's test of starch solution. Why sucrose is called an invert sugar?
 2+2+2+2+2
 - b) State the factors that influence enzymes activity. Discuss about competitive inhibition of enzyme.
 State the difference between metalloenzyme & metal activated enzymes with example. 4+3+3
 - c) State the estimation principles & procedure of serum sodium level. What is the normal range of serum sodium? State the clinical significance of potassium & sodium in ionic balance.
 6+1+3
 - d) Discuss the salient features of beta- pleated sheet structure of protein. Define denaturation of protein.
 Give examples of four denaturating agents. Name two aromatic amino acids. 4+2+2+2
- 2. Write short notes of the following :
 - a) RNA and its types.
 - b) Dehydration and osmotic imbalance.
 - c) Phoshoglyceride.
 - d) Uncompetitive inhibition.
 - e) Application of radioactivity for diagnosis.
 - f) Genetic code.
 - g) Physiological buffer system.
 - h) Vitamin deficiency.