

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

Examination

Subject: Basic Biochemistry

Time: 3 hrs

Full Marks: 80



Attempt all questions

1. Answer the following questions :

- a) State the application of Henderson-Hasselbalch equation. Discuss about the blood buffer system in regulation of physiological pH. 3+7
- b) State the comparison of fat soluble and water soluble vitamins. Describe the source, daily requirement, biochemical function and deficiency manifestation of Vitamin B-12. 3+7
- c) Briefly discuss classification of fatty acids. Oleic acid is a non-essential but Linolenic acid is an essential fatty acid – justify. Write a note on PUFA and DHA. 3+3+(2+2)
- d) State the general features of genetic code. Define nucleoside and nucleotides with example. Name the stop codons. 4+4+2

2. Write short notes of the following :

8 x 5

- a) Osazone test.
 - b) Bicarbonate buffer system.
 - c) Qualitative estimation of protein.
 - d) Salting-in and salting-out.
 - e) Estimation principle and procedure of serum potassium.
 - f) Competitive inhibition of enzyme.
 - g) Application of radioactivity for diagnosis of disease.
 - h) Glycerophospholipid.
- gms*