## The West Bengal University of Health Sciences M.Sc. MLT in Biochemistry 2nd Year December, 2023- January, 2024 Examination

Subject: Enzymology and Metabolism

Time: 3 hrs

Full Marks: 80

**ESTD 201** 

PALLI

## Attempt all questions

- 1. Answer the following questions:
  - a) Explain the influence of various factors on activity of an enzyme.

10

- b) Write in detail about the digestion and absorption of lipid and write about causes of fatty stool. 6+4
- c) Describe the reactions of Glycolysis. Add a note on the net ATP yield under aerobic and anaerobic conditions.
- d) Describe β-oxidation of saturated fatty acids. Write a note on energetic of saturated fatty acids.
- 2. Write in brief on the following:

8 x 5

- a) Explain the terms homo and heteropolysaccharides. Write briefly on hyaluronic acid.
- b) Classify proteins based on their structure with their examples.
- c) Write briefly on secondary structure of DNA.
- d) Define Km value and write about its importance.
- e) Write a short note on Allosteric enzyme.
- f) Function of epinephrine & non epinephrine.
- g) Formation of bile acid.
- h) What is fatty liver and explain its causes.