

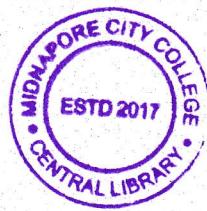
**The West Bengal University of Health Sciences**  
**1st BMLT September, 2023 Examination**

Subject: Basic Biochemistry

Time: 3 hrs

Full Marks: 100

Attempt *all* questions



1. Answer all questions : 20 x 1
- Enzyme increases the rate of reaction :
    - By increasing activation energy.
    - By lowering activation energy.
    - Remaining the activation energy same.
    - None of the above.
  - Double bond is absent in :
    - MUFA.
    - PUFA.
    - Saturated fatty acid.
    - All of the above.
  - Which Nitrogenous base is absent in RNA :
    - Adenine.
    - Thymine.
    - Guanine.
    - Uracil.
  - Example of lipid aggregate is :
    - Fat.
    - Oil.
    - Wax.
    - Liposome.
  - Ketonemia is defined as :
    - Presence of ketone body in urine.
    - Presence of ketone body in blood.
    - Absence of ketose in blood.
    - Absence of ketose in urine.
  - Example of globular protein is :
    - Albumin.
    - Collagen.
    - Elastin.
    - Fibrinogen.
  - $\beta$ -1,4 glycosidic bond is present in :
    - Glucose.
    - Fructose.
    - Cellulose.
    - Glycogen.
  - Factor which do not affect fluorescence is :
    - Structure.
    - Temperature.
    - pH.
    - Odour.
  - Fatty acid activation occurs in :
    - Mitochondria.
    - Cytoplasm.
    - ER.
    - All of the above.
  - Cholesterol synthesis is inhibited by :
    - Aspirin.
    - Ibuprofen.
    - Lovastatin.
    - Isoniazid.
  - In uncompetitive inhibition :
    - $K_m$  decreases.
    - $K_m$  increases.
    - $V_{max}$  increases.
    - $V_{max}$  remain unchanged.
  - Which vitamin deficiency leads to microcytic anaemia?
    - B3.
    - B5.
    - B7.
    - B6.
  - Example of essential fatty acid is :
    - Palmitic acid.
    - Linoleic acid.
    - Stearic acid.
    - Myristic acid.
  - Molecular weight is defined by :
    - Addition of atomic weight of a molecule.
    - Multiplication of atomic weight of a molecule.
    - Subtraction of atomic weight of a molecule.
    - None of the above.
  - The hormone calcitonin :
    - Increases blood calcium.
    - Decreases bone calcium.
    - Increases bone calcium.
    - None of the above.
  - Zwitter ion property showed by :
    - Fatty acid.
    - Amino acid.
    - Nucleic acid.
    - All of the above.
  - The anion liberated by ionization of an acid is called :
    - Conjugate acid.
    - Amino acid.
    - Conjugate base.
    - Modified base.

P. T. O.