

B.Sc. Semester - 2 (NEP-2020) Examination

MARCH/APRIL-2026

BIT: Fundamental of Biochemistry (Major-4)

Time: 2:00 Hours

Marks:50

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

Que.1 Write a note on

- 1) Define- pH. Discuss detail note on buffer. (05)
- 2) Structure of atoms. (05)

OR

- 1) Weak bonds. (05)
- 2) Properties of water. (05)

Que.2 Write a note on

- 1) Physical properties of enzymes. (05)
- 2) Classification of enzymes. (05)

OR

- 1) Isoenzyme. (05)
- 2) Acid base catalysis. (05)

Que.3 Write a note on

- 1) Michaelis- Menten constant. (05)
- 2) Irreversible enzyme inhibition. (05)

OR

- 1) Allosteric regulation. (05)
- 2) Differences between prokaryotic & eukaryotic enzyme regulation. (05)

Que.4 Write a note on

- 1) Composition of membrane. (05)
- 2) Passive diffusion. (05)

OR

- 1) Proton pump. (05)
- 2) Secondary active transport. (05)

Que.5 Write a note on

- 1) Chemical reactions. (05)
- 2) Biocatalyst and chemical catalyst. (05)

OR

- 1) Lineweaver- Burk plot. (05)
- 2) Primary active transport. (05)
