NS-3465 (CV-II) B.Sc. (Biotechnology) Examination, June-2021 Bioenergetics and Biomembranes

(B-202)

B.Sc. (Bio-Tech.)

Time: 1½ Hours | [Maximum Marks: 50

Note: Attempt any **two** questions. **All** questions carry equal marks.

- Explain the pathway of Glycolysis and also describe its regulation.
- Give a detail account on Electron transport chain and Oxidative phosphorylation.

P.T.O.

- Write short notes on the following:
 - (i) Entropy
 - (ii) Redox potential
- 4. Define the following terms:
 - (i) Deamination
 - (ii) Alcoholic fermentation
 - (iii) Transamination
 - (iv) Ionophores
- 5. Differentiate the following:
 - (i) Endergonic and Exergonic Processes.
 - (ii) Active and Passive transport.
- What are Fatty acid? Explain major and minor fatty acid pathway of oxidation.

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- Explain the structure and function of Plant cell membrane with suitable diagrams.
- 8. Write short notes on the following:
 - (i) Glycogen breakdown
 - (ii) Urea cycle
- Write an essay on High energy compounds.
- 10. Write short notes on the following:
 - (i) Equilibrium thermodynamics
 - (ii) Erythrocyte membrane