Y - 186 / Y - 187 (A)

B.Sc. (First Year) (SPECIAL) EXAMINATION, August 2021

(SECOND CHANCE)

BIOCHEMISTRY

Paper – I, II

BIOMOLECULES/BIOPHYSICAL AND BIOCHEMICAL TECHNIQUES

Time: Three Hours

Maximum Marks : 40 + 40 = 80 (For Regular Students)

Minimum Pass Marks : 33%Maximum Marks : 50 + 50 = 100 (For Private Students)

Minimum Pass Marks : 33%Note—Attempt all questions.

(Section A)

1. Write short notes on:

- (a) Anomers
- (b) Epimers
- (c) Diastereomers.
- 2. Write short notes on: 13/17
 - (a) Saponification of fats
 - (b) Functions of Sterols.
- 3. Write the structures of: 14/17
 - (a) Guanosine
 - (b) Thymine
 - (c) Cytidylic acid
 - (d) Adenine.

(Section B)

- 4. Define free energy. How it is different from standard free energy? What do you understand by $+\Delta G$ and $-\Delta G$ and whether these are related to progress of reaction?
- 5. Describe the principle and applications of UV-vis spectrophotometry. How it is different from colorimetry?
- 6. Name the radioisotopes commonly used for biological studies. Which units are commonly used for measurements of radioactivity? 14/17