

Roll No.

Y – 186 / Y– 187 (S)

B.Sc. (First Year) EXAMINATION, (Suppl./Second Chance) Sept.-2021

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. Give the names of— 13/16
 - (a) an aldose.
 - (b) a monosaccharide.
 - (c) a disaccharide.
 - (d) a polysaccharide.
2. How are saturated fatty acids structurally different from unsaturated fatty acids ?. Name any one saturated and one unsaturated fatty acids. 13/17
3. Write short notes on— 14/17
 - (a) Fibrous proteins.
 - (a) Globular proteins.

Section B

4. Write principles of thermodynamics and comment on their applications in biochemistry. 13/16
5. How sedimentation is used for molecular weight determination ? Describe other applications of sedimentation also. 13/17
6. Describe the basic principle of ion-exchange chromatography. How it is used for purification of proteins ? 14/17