

Exam. Code : 107405
Subject Code : 1746

B.Sc. Biotechnology 5th Semester
BIOPROCESS ENGINEERING-A
Paper : BT-5

Time Allowed—3 Hours] [Maximum Marks—40

Note :- Attempt **FIVE** questions in all, selecting at least **ONE** question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION-A

1. Describe the fundamentals of Biochemical Engineering.
2. Discuss the role of diffusion in bioprocessing.

SECTION-B

3. Discuss the microbial growth kinetics.
4. Discuss the substrate inhibition kinetics.

SECTION-C

5. Discuss the external feedback system.
6. Discuss the effector molecule kinetics.

SECTION-D

7. Discuss the continuous sterilization.
8. Discuss the media sterilization.