M.PHARM. DEGREE EXAMINATION FIRST YEAR

BRANCH VI – PHARMACEUTICAL BIOTECHNOLOGY PAPER III – BIOPROCESS TECHNOLOGY

Q.P. Code: 262918

Time: Three hours Maximum: 100 marks

I. Elaborate on: (2x20=40)

1. Write detail about biosynthesis of secondary metabolites and its importance.

2. Define bioreactor and explain different types of bioreactor.

II. Write notes on: (10x6=60)

- 1. Discuss about strain improvement for increased yield.
- 2. Alkaloid biotransformation.
- 3. Briefly about different type of sparger.
- 4. Production of lactic acid.
- 5. Measurement of mass transfer coefficient.
- 6. Application of semi open system.
- 7. Briefly about air compressing system.
- 8. Define microbial transformation and explain with example.
- 9. Explain the methods of cell disruption.
- 10. Compare the efficacy of immobilized and free cells.
