

AV – 2304

Third Year B. Pharm. (Annual Pattern) Examination

**PHARMACEUTICAL BIOTECHNOLOGY**

Paper - III. T. 3

( USC – 35017 )

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

- 
- Note :** (1) All questions carry equal marks.  
(2) Answer any **Eight** questions.

1. Write notes on (any **Two**) :—
  - (a) Hyaluronidase Enzyme
  - (b) Penicillinase Enzyme
  - (c) Streptokinase Enzyme. 10
2. Give an account on Biotransformation process with special reference to steroid. 10
3. Give screening of micro-organism. Define mutants and factors affecting rate of mutation. 10
4. Write a detailed note on production of Entropoeition and Humatrope. 10
5. Give an account on Immune system. Explain cell mediated Immunity. 10
6. Write note on t RNA structure. Enlist different types of t RNA and explain it. 10

AV–2304

P.T.O.

7. Write detailed note on RNA polymerase enzyme, its structure and Role in Transcription. 10
8. Give an account on Translation in prokaryotes. 10
9. Explain the process of Replication in Eukaryotes. 10
10. Write note on Meselson and Stahl's Experiment. 10

