

35158 : Pharmaceutical Biotechnology : T-4.4

P. Pages : 1

Time : Three Hours



AW - 2304

Max. Marks : 60

- Notes :
1. All question carry equal marks.
 2. Answer **any five** questions.
 3. Illustrate your answer necessary with the help of neat sketches.
 4. Use of pen Blue/Black ink/refill only for writing the answer book.

1. Explain the steps involved in translation process. Explain Role of RNA and proteins involved in the process. **12**
2. Discuss in detail about Gene therapy with their application. **12**
3. Discuss about different designs of Fermenter. Add a note on control of different parameters. **12**
4. Define Enzyme Immobilization. Explain different techniques of Immobilization of enzyme. **12**
5. What is Gene cloning. Explain steps involved in Gene Cloning with their applications. **12**
6. Explain biotransformation process with special reference to steroids. **12**
7. Short note on **any two**. **12**
 - a) Cell and organ culture.
 - b) Genetic code with their significance.
 - c) Meselson and Stahls experiment.
 - d) Replication of DNA.
