

MPY-102**M.Pharmacy I Semester**

Examination, December 2015

Biotechnology and Bioinformatics*Time : Three Hours**Maximum Marks: 70***Note:** i) Answer any five questions.

ii) All questions carry equal marks.

1. a) What do you understand by expression of genetic information?
b) Write about Transcription, Translation and post translation modification.
2. a) Explain constructing recombinant DNA molecules and gene cloning.
b) Write a note on pharmaceutical applications of recombinant DNA.
3. a) Give brief information about potential target diseases for gene therapy.
b) Write about gene transfer methods.
4. a) What do you understand by hybridoma technology and its applications?
b) Explain modern vaccine technologies and genetically improved live vaccines.

5. a) Give the details of transport of substances across the membrane.
b) Write about cellular reproduction.
6. a) Explain genetics of cancer and new strategies for combating cancer.
b) Write briefly about conventional vaccines.
7. a) What do you know about genomic protein targets and recombinant therapeutics?
b) Write in brief about rational drug design.
8. Write notes on : (Any Two)
 - a) Sequence analysis
 - b) Normal distribution and probability distribution
 - c) Genetic and Physical mapping
