

MPY-102
M.Pharmacy 1 Semester
Examination, December 2016
Biotechnology and Bioinformatics
Time : Three Hours Maximum Marks: 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Describe the structure and function of DNA.
b) Write a note on expression Genetic Information,
2. a) Describe the Polymerase Chain reaction-based DNA cloning.
b) Give an account Constructing Recombinant DNA molecules.
3. a) What is gene therapy? Describe the potential target diseases for Gene therapy.
b) Discuss the various Gene transfer methods.
4. a) Give an account on Hybridoma technology and its pharmaceutical application.
b) Describe the Genetically improved live vaccines, Genetically improved subunit vaccines.
5. a) Write a note on Cellular reproduction.
b) What is Cell Signaling? Describe the Communication between cells and their environment.
6. Comment on the following :
 - a) Causes and Genetics of Cancer.
 - b) Strategies for Combating Cancer.
7. Write notes on :
 - a) Sampling and Sampling plans.
 - b) Chemical biology and Molecular diversity.
8. Write notes on any two of the following :
 - a) Genomic protein targets and recombinant therapeutics.
 - b) Molecular biology of disease and in-vivo transgenic models.
 - c) Normal and Probability distribution.