

Roll No

MPY-201 (PBT)
M.Pharmacy II Semester Examination, June 2020
Pharmaceutical Aspects of Microbial and Cellular Biology
Time : Three Hours

Maximum Marks: 70

Note: i) Attempt any five questions.
ii) All questions carry equal marks.

1. a) What do you know about Mutagenesis? Give mechanism and application of Mutagenesis.
b) Write in detail about processes involving gene transfer.
2. a) Discuss about general features, method of isolation, cultivation of Bacteria.
b) What are the applications of micro organisms in fermentation industries?
3. a) Write about various steps involved in DNA replication.
b) Describe the roles of RNA in the protein synthesis.
4. a) Write a short note on Antibiotic resistance.
b) Explain purification, transfer and applications of Plasmids.
5. a) Discuss the general procedures for the preparation of cell culture.
b) Explain culture stability and degeneration of Batch and continuous culture.
6. a) Give detailed account of substrate entry and translocation.
b) What are the biochemical mechanisms of Secondary metabolism?
7. a) Discuss the mechanisms of microbial pathogenecity.
b) Write about etiology and pathology of any two common bacterial infections.
8. Write short notes on any two:
 - a) Polymerase chain reaction
 - b) Microbial Taxonomy
 - c) Techniques for antiviral screening
