



PS-003-1134003

Seat No. _____

M. Sc. (Biotechnology) (Sem. IV)

(W.E.F. 2016) Examination

August - 2020

BT - 420 : Pharmaceutical Biotechnology

(Ele.) (New Course)

Faculty Code : 003

Subject Code : 1134003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- Instructions :** (1) All questions are compulsory.
(2) The right side figure indicates total marks of the question.

1 Answer the following : (Any Seven) 7×2=14

- (1) What are Antimicrobial Peptides?
- (2) What is positional cloning?
- (3) What is vaccine?
- (4) What is DNA microarray?
- (5) What is linkage analysis?
- (6) What is rational drug designing?
- (7) Define term "isoelectric focusing"?
- (8) What is 2D protein gel electrophoresis?
- (9) What is drug dosage?
- (10) What is bacteriostatic effect?

2 Answer the following : (Any Two) 7×2=14

- (1) Write a note on functional organization of human genome.
- (2) What is MALDI? Explain.
- (3) Describe the applied significance of Human Genome Project.

3 Answer the following : **7×2=14**

- (1) What is the difference between bacteriostats, sanitizers, disinfectants and sterilizers?
- (2) What is an antibacterial and how are antibacterial classified?

OR

3 Answer the following : **7×2=14**

- (1) What is importance of drug dosages in cancer?
- (2) Describe Genome variation among HIV strains.

4 Answer the following : **7×2=14**

- (1) Describe HIV Life Cycle
- (2) What are various approaches in vaccination?

5 Answer the following : (Any **Two**) **7×2=14**

- (1) What are the importance and types of drug metabolizing enzymes?
- (2) Explain the techniques used in the Gene Expression Analysis?
- (3) What is individualized medicine? Give its applications.
- (4) Antibiotic resistance
