

## HA-003-1134003

## M. Sc. (Sem. IV) (CBCS) (W.E.F. 2016) Examination

**April - 2023** 

**Biotechnology: BT-420** 

(Pharmaceutical Biotechnology)

(Elective)

Faculty Code: 003

Subject Code: 1134003

Time:  $2\frac{1}{2}$  Hours / Total Marks: 70

- 1 Answer the following (Any 7, Each of 02 marks)
  - (1) What are antimicrobial agents?
  - (2) What is cDNA?
  - (3) What is Cloning?
  - (4) What is positional cloning?
  - (5) How would you design a drug?
  - (6) What is AIDS?
  - (7) Who started the HGP?
  - (8) What is the role of personalized medicine?
  - (9) What is the molecular diagnosis?
  - (10) Why Vaccine is called a Vaccine?
- 2 Answer the following (Any Two, Each of 07 Marks)

14

14

- (a) Describe the structural organization of the human genome.
- (b) Write a note on MALDI TOF and explain how it works.
- (c) What is 2D gel electrophoresis. Give its applications.

Answer the following (a) & (b) Both are compulsory, 14 3 Each of 07 marks) What are drug metabolizing enzymes? Describe. Write a note on microarray? (b) **OR** 3 Answer the following (a) & (b) Both are compulsory, 14 Each of 07 marks) Write a note on individualized medicine. (b) Write a note on disease-linked genes. 4 Answer the following (a) & (b) Both are compulsory, 14 Each of 07 marks) Write a brief note on drug-metabolizing enzymes. Write a note on molecular diagnosis by biomolecular detection. 5 Answer the following (any Two, Each of 07 Marks) 14 (a) Write a note on modern approaches in vaccination. What genome variations are found among the HIV strains? How do antimicrobial agents work? Give its various categories. Write a note on drug side effects. (d)