



**MBT-003-1134003** Seat No. \_\_\_\_\_

**M. Sc. (Biotech) (Sem. IV) (CBCS) Examination**

**April / May - 2018**

**BT - 420 : Pharmaceutical Biotechnology (ELE)**

**Faculty Code : 003**

**Subject Code : 1134003**

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

[Total Marks : 70

1 Answer the following (Any **seven** out of Ten, each of Two marks) **14**

- (1) What is positional cloning?
- (2) What is vaccine?
- (3) What is linkage analysis?
- (4) Define term "isoelectric focusing"?
- (5) What is conjugate?
- (6) What is bacteriostatic effect?
- (7) What are genetic markers?
- (8) What are applications of microarray technique?
- (9) What is bactericidal effect?
- (10) What are antimicrobial agents?

2 Answer the following (Any **two** out of Three, each of 07 marks) **14**

- (a) Write a note on functional organization of human genome.
- (b) Write a note on 2D gel electrophoresis.
- (c) What is MALDI? Explain.

**3** Answer the following (a & b -Both are compulsory, each of 07 marks) **14**

(a) Write a short note on genome variation among the HIV strain.

(b) What is target selection? Explain?

**OR**

**3** Answer the following (a & b -Both are compulsory, each of 07 marks) **14**

(a) What are drug metabolizing genes? Explain with their effects.

(b) What is importance of dosages in cancer?

**4** Answer the following (a & b -Both are compulsory, each of 07 marks) **14**

(a) What are antimicrobial agents? Explain.

(b) What are various approaches in vaccination?

**5** Answer the following (Any **two** out of four, each of 07 marks) **14**

(a) Write a note on linkage analysis.

(b) Write a note life cycle of HIV.

(c) What is individualized medicine? Give its applications.

(d) Explain types of vaccine with examples.

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