

This question paper contains 2 printed pages]

LB—98—2023

FACULTY OF SCIENCE

M.Sc. (Third Semester) EXAMINATION

APRIL/MAY, 2023

[New/CBCS]

BOTANY

Paper—XII

(Molecular Biology and Biostatistics)

(Saturday, 6-5-2022)

Time : 2.00 p.m. to 5.00 p.m.

Time— Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) All questions carry equal marks.

(iii) Draw well labelled diagrams wherever necessary.

1. Explain in detail transcriptional positive and negative regulation. 15

Or

Describe unique DNA, repetitive DNA and forms of DNA in detail.

2. Explain in detail mechanism of Eukaryotic replication. 15

Or

Elucidate operon concept and its types.

3. Briefly describe Ribosomes composition and assembly. 15

Or

Explain Lytic and Lysogenic cycles of Bacteriophages.

4. Explain the measures of central tendency in detail. 15

P.T.O.

WT

(2)

LB—98—2023

Or

Explain Binomial, Poisson and normal probability distribution.

5. Write short notes on any *three* out of *four* :

15

- (i) Cot curves
- (ii) DNA methylation
- (iii) 5'-Cap formation
- (iv) Chi-square test.

LB—98—2023

2