This question paper contains 2 printed pages]

WT-102-2024

FACULTY OF SCIENCE AND TECHNOLOGY

M.Sc. (Second Year) (Third Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

BOTANY

Paper XII

(Molecular Biology and Biostatistics)

(Thursday, 12-12-2024)

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

Time—Three Hours

Maximum Marks—75

- Note := (i) Attempt all questions.
 - (ii) All questions carry equal marks.
 - (iii) Illustrate your answers with suitable diagram, scheme etc.
- 1. Explain Cot curve. Give Cot 1/2 values and its significance.

15

Or

Describe structure of nucleic acids in detail.

2 Describe regulation of gene expression in prokaryotes.

15

Or

Describe enzymes of DNA replications and their role.

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| 3. | Describe in brief the composition and assembly of Ribosomes. | 15 |
| | Or The State of th | |
| | Describe different types of mobile DNA in detail. | |
| 4. | Describe binomial distribution with suitable example. | 15 |
| | or Hill of the state of the sta | |
| | Describe mean deviation and standard deviation with suitable example | e. |
| 5. | Write short notes on (any three): | 15 |
| | (i) Forms of DNA | |
| | (ii) Structure and role of introns | |
| | (iii) Bacterial conjugation | |

(iv)

Confidence interval.