

This question paper contains 2 printed pages]

SB—36—2022

FACULTY OF SCIENCE

B.Sc. (Third Year) (Fifth Semester) EXAMINATION

MAY/JUNE, 2022

(CBCS/New Pattern)

BOTANY

(Paper-XII)

(Cell and Molecular Biology)

(Friday, 10-06-2022)

Time : 10.00 a.m. to 12.30 p.m.

Time— 2½ Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) Draw neat and well labelled diagrams wherever necessary.

1. Describe in detail ultrastructure and functions of Nucleus. 15

Or

Describe in brief :

(a) Polytene chromosome 8

(b) Structure of typical chromosome. 7

2. What are nucleic acids ? Describe structure of DNA. 15

Or

Describe in brief :

(a) Structure of *m*-RNA. 8

(b) Fine structure of gene. 7

P.T.O.

WT

(2)

SB—36—2022

3. Write notes on (any two) :

10

- (a) Ribosomes
- (b) Metaphase of mitosis
- (c) Translation
- (d) PKU.

SB—36—2022

2