

This question paper contains 2 printed pages]

NA—21—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

BOTANY

Paper XII

(Cell and Molecular Biology)

(Thursday, 7-12-2023)

Time : 10.00 a.m. to 12.00 noon

Time—2 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 Golgi apparatus. 15

Or

Describe in brief :

(a) Prophase and metaphase of mitosis 8

(b) Polytene chromosome. 7

2. Describe structure of DNA. 15

P.T.O.

WT

(2)

NA—21—2023

Or

Describe in brief :

- | | | |
|-----|--------------------------------------|----|
| (a) | Gene mutation | 8 |
| (b) | PKU. | 7 |
| 3. | Attempt any <i>two</i> out of four : | 10 |
| (a) | Ribosome | |
| (b) | Pachytene | |
| (c) | mRNA | |
| (d) | Morgan's view of gene concept. | |

NA—21—2023

2