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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)

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Or

Describe in brief :

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

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