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GA—32—2023

FACULTY OF SCIENCE

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

APRIL/MAY, 2023

(New/CBCS Pattern)

BOTANY

Paper-XII

(Cell and Molecular Biology)

(Thursday, 27-4-2023)

Time : 10.00 a.m. to 12.00 noon

Time—Two 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 endoplasmic reticulum. 15

Or

Describe in brief :

(a) Prophase-I of Meiosis 8

(b) Lampbrush chromosome. 7

2. What are nucleic acids ? Describe in detail the structure and functions of mRNA. 15

Or

Describe in brief :

(a) Fine structure of gene 8

(b) AKU. 7

P.T.O.

WT

(2)

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3. Attempt any *two* out of four :

10

- (a) Glyoxysomes
- (b) Metaphase in Mitosis
- (c) Transcription
- (d) Amniocentesis.

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