

This question paper contains 2 printed pages]

PA—21—2024

FACULTY OF SCIENCE

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

MARCH/APRIL, 2024

(CBCS/New Pattern)

BOTANY

Paper XII

(Cell and Molecular Biology)

(Friday, 12-04-2024)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

Note :— (i) Attempt all questions.

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

1. Describe the ultrastructure of prokaryotic cell. 15

Or

Describe in brief :

(a) Structure of a typical chromosome 8

(b) Cell cycle. 7

P.T.O.

WT

(2)

PA—21—2024

2 Describe in detail Watson and Crick's model of DNA. 15

Or

Describe in brief :

(a) Morgan's view of gene concept. 8

(b) PKU. 7

3. Attempt any *two* out of four : 10

(a) Nucleolus

(b) Shapes of chromosome

(c) tRNA

(d) Sickle cell anaemia.

PA—21—2024

2