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**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.**

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3. Write notes on (any two) :

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

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