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**SB—115—2022**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc.(Second Year) (Fourth Semester) EXAMINATION**

**MAY/JUNE, 2022**

**(New Pattern)**

**ZOOLOGY**

**Paper-VIII**

**(Cell Biology and Genetics)**

**(Friday, 17-06-2022)**

**Time : 02.00 p.m. to 04.30 p.m.**

Time— 2½ Hours

Maximum Marks—40

*N.B. :— (i) Attempt all questions.*

*(ii) Illustrate your answers with suitably labelled diagrams, wherever necessary.*

1. Describe in detail structure and function of mitochondria. 15

*Or*

(a) Complementary factor 8

(b) Duplicate genes 7

2. What is Mutation ? Explain structural alternation in chromosome. 15

*Or*

(a) Genic balance theory 8

(b) Define pedigree analysis. Describe any *seven* symbols of pedigree. 7

3. Attempt any *two* of the four (each of 5 marks) : 10

(a) Prokaryotic cell

(b) Law of dominance

(c) Significance of Crossing over

(d) Turner syndrome.

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