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NA—69—2023

FACULTY OF SCIENCE & TECHNOLOGY

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

NOVEMBER/DECEMBER, 2023

(New Pattern)

ZOOLOGY

Paper-VIII

(Cell Biology and Genetics)

(Thursday, 14-12-2023)

Time : 2.00 p.m. to 4.00 p.m.

Time—2 Hours

Maximum Marks—40

N.B. :— (1) Attempt *all* questions.

(2) Illustrate your answers with suitable labelled diagrams, wherever necessary.

1. Describe the structure of Prokaryotic cell. 15

Or

(a) Explain the Mendel's Law of Segregation. 8

(b) Give an account on Supplementary factor. 7

2. What is Linkage ? Describe the types and significance of Linkage. 15

Or

(a) Give an account on Bridge ratio theory of Genic Balance. 8

(b) Give an account on Human Pedigree analysis with symbols. 7

P.T.O.

WT

(2)

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3. Write short notes on any *two* of the following :

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- (a) Golgi Complex
- (b) Duplicate gene
- (c) Erythroblastosis foetalis
- (d) Haemophilia.

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