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**SA—69—2025**

**FACULTY OF SCIENCE AND TECHNOLOGY**

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

**APRIL/MAY, 2025**

**(CBCS/New Pattern)**

**ZOOLOGY**

**Paper VIII**

**(Cell Biology and Genetics)**

**(Tuesday, 22-4-2025)**

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

*Time—Two Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt All questions.*

*(ii) Illustrate your answers with suitable and labelled diagrams wherever necessary.*

1. Describe the structure and functions of plasma membrane. 15

*Or*

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

(b) Give an account on Supplementary factor. 7

2. What is Multiple Allele ? Explain inheritance of ABO Blood Groups in Man. 15

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Or

- (a) Give an account on Bridge ratio theory of Genic Balance. 8
- (b) Give an account on Human Pedigree analysis with symbols. 7
3. Write short notes on any *two* of the following : 10
- (a) Lysosomes
- (b) Lethal gene
- (c) Erythroblastosis foetalis
- (d) Phenylketonuria (PKU).

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