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**SUBJECT CODE NO: - YY-2357**  
**FACULTY OF SCIENCE AND TECHNOLOGY**  
**B.Sc. (CBCGS) (Pattern 2022) S.Y. (SEM IV)**  
**Examination April / May – 2024**

**Dairy Science & Technology-XII Genetics and Animal Breeding**

[Time: 1:30 Hours]

[Max. Marks: 40]

Please check whether you have got the right question paper.

N. B

- 1) Attempt all questions.
- 2) All questions carry equal marks.
- 3) Illustrate your answer with suitable labelled diagram.

**Q.1** Define Variation. Describe hereditary causes of Variation.

10

OR

Define fertility. Describe Various factors affecting breeding efficiency.

**Q.2** Describe Crossbreeding with examples.

10

OR

Define selection. Explain methods of selection of animal.

**Q.3** Write short notes: (Any two)

10

- a) Sex determination
- b) Monohybrid Cross.
- c) Grading up
- d) Line breeding

**Q.4** Write short notes: (Any two)

10

- a) Close breeding
- b) Anatomical Causes of sterility
- c) Modified dihybrid cross
- d) Effect of inbreeding on growth and reproduction.