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SUBJECT CODE NO:- B-2231
FACULTY OF SCIENCE & TECHNOLOGY
B.Sc. T.Y. (Sem-VI)
Examination November/December- 2022
Dairy Science and Technology Paper- XIX
(Genetics and animal breeding)

[Time: 1:30 Hours]

[Max. Marks:50]

“Please check whether you have got the right question paper”

- N.B
- i) Attempt all questions.
 - ii) Use any blue or black pen.
 - iii) Illustrate your answer with Suitable diagram.

Q.1 What do you mean by inbreeding? Describe close breeding & lined breeding. 20

OR

Describe the process of meiosis.

Q.2 Define term "Mutation". Describe types of mutation. Enlist probable agencies involved in inducing mutation. Describe general characteristics of mutation. 20

OR

Write short notes on any four of the following:

- a) Mendel's monohybrid Cross
- b) Progeny testing
- c) Non hereditary Causes of Variation
- d) Anatomical causes of sterility
- e) Back Crossing
- f) Heritability.

Q.3 Write the correct answer of following multiple Choice questions. 10

- 1) Transmission of character from one generation to next is called -----
- a) Mutation b) Recombination c) Heredity d) Variation

- 2) Chromosome are made up of
a) Protein b) Nucleic acid c) Protein & Nucleic add d) None of these
- 3) First generation Progeny from Crossing inbred lines is termed as -----
a) F_1 b) F_2 c) F_3 d) F_4
- 4) -----is the chromosome present in two doses in cells of a female & in one close in the Cells of male.
a) X b) Y c) XY d) None of these
- 5) Scientific name of exotic Cattle is
a) Bos indicus b) Bos bubalus c) Bos taurus d) Bubalus bubalis
- 6) The monohybrid test cross ratio is -----
a) 9: 3:3:1 b) 3:1 c) 9:3 d) 1:1
- 7) -----is the ability of animal to being reproduce.
a) Prolificacy b) Sterility c) Fertility d) None of these
- 8) Production of multiple & identical Copies of organism is called -----
a) Fecundity b) Twining c) Longevity d) cloning
- 9) Disease brucellosis is caused by-----
a) Trichomonas foetus b) Vibrio foetus c) Brucellus abortus d) none of these
- 10) The process of eliminating nonproductive animal is termed as -----
a) Duplication b) Culling c) Variation d) Branding