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SUBJECT CODE NO:- 2231 FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. T.Y (Sem-VI)

Examination March/April-2022 (To Be Held In June/July-2022)

Dairy Science and Technology Paper- XIX

(Genetics and animal breeding)

[Tin	[Max. Marks:50]	
N.B	Please check whether you have got the right question paper. i. Attempt all questions. ii. Illustrate your answer with suitable labeled diagram	
Q.1	Define mutation. Describe types and effects of mutation.	20
	State the methods of selection. Describe performance testing.	20
		6
Q.2	Define variation. Describe chromosomal abbreations.	20
Q.3	Write short notes on any four of the following. a) Modified dihybrid cross b) Sex linkage and sex limited inheritance c) Anatomical causes of sterility d) Progeny testing e) Criss corssing f) Close and line breeding Write correct answer of the following multiple choice questions	20
	1) takes place in gonuds a) Meiosis b) Mitosis c) A and B d) None of above	
	2) In molecular term is a segment of DNA molecule?a) Chromosomeb) Gene	
	c) Allele d) Gamete 3) In Mendel's dihybrid cross phenotypic ratio is a) 15:1 b) 9:7 c) 9:3:3:1 d) 13:3	
100°	e)	

4)	Change in fertility is an indicator of mutation.					
	a)	Gene	b)	Point		
	c)	Chromosomal	d)	All above		
5)	An -	An occurs when a segment of a chromosome breaks off and regions the				
	opp	osite ends.				
	a)	Deletion	b)	Duplication		
	c)	Translocation	d)	Inversion		
6) means the mating full brother to full sister.						
	a)	Close breeding	997	b) Line breeding		
	c)	Out breeding		d) Out crossing		
7)		is example of species hybridization.				
	a)	Hinny	b)	Jersey		
	c)	Deoni	d)	All above		
8)	is the practice of breeding sires of a given breed to non-descript females and their					
	off springs for generation after generation.					
	a)	Criss crossing	b)	Triple crossing		
	c)	Grading-up	d)	Out crossing		
9)	In the parents are chosen on the basis of phenotype performance of their progeny.					
- /		Progeny testing		Ring selection		
		Pedigree selection	\wedge	Performance testing		
	2					
10)) The	general rule permits less thans	ces per conception.			
200	a)		b)	05		
	c)		%d)	02		
	~ / . (0)					