SEAT No.

No. of Printed Pages: 2



## SARDAR PATEL UNIVERSITY

## **NOVEMBER-2022 GENETICS & BIOTECHNOLOGY**

## US 05 CZOO 23

DATE: 12/11/2022 SATURDAY

BSC. - V SEM. EXAMINATION

MARKS: 70

[10]

TIME: 10:00 AM-1.00 PM

Q-1 MULTIPLE CHOICE QUESTIONS:

1.	, IN GENETICS "aa" IS STAND FOR.			
	A, RECESSIVE	B, DOMINANT	C, HETEROGENIC	D, NON ALLELIC
2.	15:1 IS CROS			
	A, DIHYBRID	B, MONOHYBRID	C, BACK	D, TEST
3.	IN PEDIGREE O SYMBOL	N PEDIGREE  SYMBOL IS FOR		
	A, MALE	B, FEMALE	C, CARRIER	D, CHILD
4.	FRATERNAL TWINS ARE PRODUCED FROM			
	A, TWO ZYGOTE	B, TWO SPERMATOZOON	C, ONE ZYGOTE	D, ALL POSSIBILITIES
5.	5. DIAGRAM CHART OF CHROMOSOMES IS			- 4.6117
	A, PEDIGREE	B, IDEOGRAM	C, KARYOTYPE	D, NONE
6.	REPLICATION OF DNA IS	MODEL		
	A, CONSERVATIVE	B, TYPICAL	C, SEMICONSERVATIVE	D, DISPUTATIVE
7	E-DNA IS KNOWN AS			
	A, ELECTIVE	B, EXTENDED	C, ENABLE	D, ELABORATED
8				
	A, POLYGENIC	B, TRANSGENIC	C, MONOGENIC	D, TRIGENIC
9	. THE MEANING OF VITRO	) IN IVF IS		
	A, LABORATORY	B, MICROSCOPE	C, GLASS	D, ALL
1	. CANCER IS ALSO CALLED AS			
	A, BENIGN	B, NEOPLASIA	C, TUMOUR	D, NONE

## Q-2 ANSWER IN SHORT [ANY TEN]

[20]

- 1. WRITE REASONS FOR SELECTION OF PEA PLANT BY MENDEL
- 2. DEFINE EPISTASIS?
- 3. WRITE ABOUT CONGENITAL ICHTHYOSIS
- 4. WRITE ABOUT DOUBLE CROSSING OVER
- 5. EXPRESS MUTATION
- 6. HARMFUL EVOLUTIONARY EFFECT OF EUPHENICS
- 7. DRAW HAIRPIN STRUCTURE OF tRNA
- 8. WRITE ABOUT RT PCR
- 9. WRITE ABOUT HOMOGENIZATION
- 10. WRITE ABOUT FLASK CULTURE
- 11. WRITE ABOUT PREPARATION OF SEMEN FOR IVF
- 12. WRITE ABOUT EMBRYO TRANSFER

Q-3	A, EXTRA NUCLEAR INHERITANCE IN LIMNEA B, EXPLAIN DOMINANT EPISTASIS		[05] [05]
		OR	
Q-3	A, GIVE DETAIL ACCOUNT OF MITOCHONDRIAL AND B, EXPLAIN LETHAL GENES AND SUB LETHAL GENES		[05] [05]
Q-4	A, EXPLAIN PLOIDY B, EXPLAIN TUTOMERIZATION		[06] [04]
		OR	
Q-4	A, EXPLAIN MECHANISM OF AMNIOCENTESIS B, EXPLAIN POSITIVE EUGENICS		[06] [04]
Q-5	A, DESCRIBE SEM AND TEM B, EXPLAIN POLYPEPTIDE CHAIN FORMATION BY RR	INA	[05] [05]
Q-5	A, DIFFERENTIATE B DNA AND Z DNA B, EXPLAIN RADIO IMMUNO ESSAY	OR	[05] [05]
Q-6	A, DESCIBE MORPHOLOGY OF CANCER CELLS B, TRANSGENIC ANIMALS AND THEIR USES	OR	[06] [04]
Q-6	A, CAUSES OF INFERTILITY IN MEN AND WOMEN B, TREATMENT FOR SUPER OVULATION		[06] [04]