C101J

B.Sc. 5th Semester Examination 2020-21 US05CZOO05 : GENETICS

DATE: 30/12/2020 TIME: 2:00 pm to 4:00 pm.

MARKS: 70

Q-1		CHOOSE CORRECT ANSWER.	[10]
	1	Father of Genetics: a. Aristotal b. Lamark c. Darwin d. Gregor mendel	
	2	In organism hybrid units are a. Gene b. Ribosome c. Golgi body d. ER	
	3	In genetic interaction P stands for a. Patent b. Gamete c. Allele d. Generation	
	4	How many characters are involved in monohybrid cross? a. One b. Two c. Three d. Four	
	5	Which of the following is genotype of blood group AB? a. $I^A I^A$ b. $I^B I^B$ c. $I^O I^O$ d. $I^A I^B$	
	6	Antigen present in blood group 'A' a. A b. B c. Both d. None	
	7	Bar body can seen in: a. XYY b. XY c. XX d. none of these	
	8.	Sex chromosome in human are: a. 21 st pair b. 22 nd pair c. 23 rd pair d. None	
	9	To get more advance trait is part of a. Euohenics b. Eugenics c. Mutation d. All of these	
	10	The genes which remain confined to different region of Y- Chromosome is called as a. Sex linked genes c. Holandric gene b. Recessive gene d. None	

Q-2			آ 80 گ
	1	1:2:1 ratio is modification ofcross.	ر مور
	2	In type of blood group , antigens are not present.	
•	3	The picture of chromosomes in descending order is known as	
	4	Chiasmata takes place duringphase.	
	5	Genetics is branch of biology deal with study of heredity and	
		variation of inherited characteristics (True/False)	
	6	Drosophila used in Genetics as model organism (True/False)	
	7	In cell other than nucleus DNA is also found in Ribosome	
		(True/False)	
	8	Amniocentesis is used for genetic disorder (True/False)	
Q-3		ANSWER IN SHORT. (Any ten)	[20]
	1	Write about Dihybrid cross.	ره- کا
	2	Define lethal genes.	
	3	Write Characters used by Mendel in Experiments	
	4	What is back cross?	
	5	Write about Mitochondrial DNA.	
	6	What is Epistasis?	
	7	Write about double crossing over.	
	8	What is sex linked gene? List the Names.	
	9	Write about Chromosomes of Drosophila.	
	10	Define the term Mutation.	
	11	What is Euphenics?	
	12	Write a Brief note on phenomenon of twin babies.	
Q-4		Long Questions. (Attempt any four)	532
	1	What is Co-dominance? Explain with example.	C ~>
	2	Explain in detail about 'Law of Segregation' with example.	
	3	Give an account on multiple alleles in human blood group.	
	4	Write a note on lethal gene with examples.	
	5	Describe sex determination.	
	6	Write a note on Gene linkage.	
	7	Describe positive and negative Eugenics.	
	8	Describe disorders due to mutant genes.	
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