Reg	. No Name	19U620
B. Sc. DEGREE END SEMESTER EXAMINATION - MARCH 2019		
SEMESTER – 6: ZOOLOGY (CORE COURSE)		
COURSE: 15U6CRZOO10: GENETICS AND BIOTECHNOLOGY		
(Common for Regular - 2016 Admission / Supplementary-Improvement 2015 admission)		
PART A		
1	Answer all questions of the following Genome	
	Crossing over Barr bodies	
	Mutagens RFLP	
_	Single Cell Protein	
	Give any two features of a vector in biotechnology	
	Patent	(1 x 8 = 8)
0.	PART B	(1 × 0 - 0)
	Answer any Six of the following	
9.	Differentiate between back cross and test cross	
	Define incomplete dominance	
	What is pleiotropy?	
	What is freemartin?	
	Write a note on Restriction endonucleases	
	List the important features of stem cells	
	Explain DNA hybridization technique?	
	Write a note on transgenic animals	(2 x 6 = 12)
	PART C	,
Answer any four of the following		
17.	Give a brief account on Mendelian principles of inheritance	
18.	Explain the mechanism of sex determination in man.	
19.	Write a brief account on autosomal genetic disorders in man.	
20.	Explain bacterial and phage vectors used in biotechnology	
21.	What is DNA fingerprinting? Add a note on its application.	
22.	Explain the steps involved in the production of cDNA and genomic library	(5 x 4 = 20)
PART D		
Answer any Two of the following		
23.	Write a detailed account on non allelic interactions	
24.	Explain bacterial gene recombination	
25.	Write an essay on PCR	
26.	Discuss the applications of Biotechnology in medicine.	$(10 \times 2 = 20)$
