Reg. No	Name	21U620
	D SEMESTER EXAMINATION - APRI	1 2021
		L 2021
SEMEST	TER –6: ZOOLOGY (CORE COURSE)	
COURSE: <b>15U6C</b> R	RZOO10: GENETICS AND BIOTECHNOL	OGY
(Common for Regular 2018 admission	& Improvement 2017/Supplementary 2017/2	?016 /2015 admissions)
Time: Three Hours		Max. Marks: 60
	PART A	
	Define all the following	
1. Pedigree		
2. Linkage		
3. Test cross		
4. Eugenics		
5. Transgenic animals		
6. Vectors		
7. SCP		(
8. Holandric genes	0407.0	$(1 \times 8 = 8)$
•	PART B	
	Answer any Six of the following	
<ol><li>State Lyon hypotheses</li><li>What are sex mosaics?</li></ol>		
10. What is FISH?		
11. What is Fish! 12. Comment on Biowar. Cite an ex	zamnle	
13. Write a note on transposons	ample	
14. Distinguish between co-domina	nce and incomplete dominance	
15. Brief note on restriction endonu	·	
16. Law of independent assortment		(2 x 6 = 12)
		(= // 0 ==)
	PART C	
An	swer any Four of the following	
17. Explain the inheritance of ABO b	olood group in man	
18. Describe the process of transduc	ction in bacteria	
19. Write a note on types of stem co	ells and their potential uses	
20. Explain different types of gene t	ransfer methods	
21. Give an account on extra nuclea	r inheritance in paramecium	
22. Explain inborn errors of metabo	lism	(5 x 4 = 20)
	PART D	
An	swer any Two of the following	
	ues associated with genetic engineering	
24. Explain DNA finger printing tech		
25. Write an essay on chromosomal	mutations	

26. Explain chromosome theory of sex determination

(10 x 2 = 20)