Reg. No Na	ame <b>23</b> l	J625-S
B. SC. DEGREE END SEMESTER E		
SEMESTER - 6: <b>ZOOLO</b>	GY (CORE COURSE)	
COURSE: 15U6CRZOO10 :- GEN	ETICS AND BIOTECHNOLOGY	
(Common for Supplementary 201	5/2016/2017/2018 Admissions)	
Time: Three Hours	Max. N	∕larks: 60
PART	·	
Define all questions  1. Monoclonal antibodies	s of the following	
Mutagens		
3. Plasmids		
4. Single Cell Protein		
5. Eugenics		
6. Transgenic animals		
7. Karyotype		
8. Bioremediation	(1 x 8	= 8)
PART	В	
Answer any Six of	the following	
9. What is called electroporation?		
10. List the important features of stem cells.		
11. What are modifying genes?		
12. What is FISH?		
13. Write a note on DNA ligase.		
14. Differentiate between back cross and test cross		
15. State Lyon hypotheses.		
16. Define biopiracy.	(2 x	6 = 12)
PART	гс	
Answer any Four	of the following	
17. Define transposable element. Add a note on the	e mechanism of transposition.	
18 Write a note on animal cell culture		

- 18. Write a note on animal cell culture.
- 19. Write a brief account on autosomal genetic disorders in man.
- 20. Explain inborn errors of metabolism.
- 21. Give a brief account on Mendelian principles of inheritance.
- 22. Discuss the potential hazards of biotechnology.

 $(5 \times 4 = 20)$ 

## **PART D**

## Answer any Two of the following

- 23. Explain chromosome theory of sex determination.
- 24. Give a detailed account on extra nuclear inheritance.
- 25. Explain bacterial gene recombination.
- 26. Explain the technique and applications of PCR.

 $(10 \times 2 = 20)$