LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

TUCENT LIN VESTIA

B.Sc. DEGREE EXAMINATION – **ADVANCED ZOOLOGY AND BIOTECHNOLOGY**

FIFTH SEMESTER - APRIL 2023

UAZ 5502 - GENETICS

CIL COOL GENE	1100
Date: 03-05-2023 Dept. No. Time: 01:00 PM - 04:00 PM	Max. : 100 Marks
PART – A	
Answer ALL questions:	(10x2=20 Marks)
Write a brief note on the following:	
1. Atavism	
2. Alleles	
3. Linked gen es	
4. Mutation	
5. Karyotype	
6. Pleiotropism	
7. Hardy-Weinberg law	
8. Eugenesis	
9. Mutagens	
10. Transformation	
PART – B Answer any FOUR questions	(4x10=40 Marks)
11. Explain about the Mendelian experiments.	
12. Write a short note on molecular modelling of crossing over.	
13. Explain about the Holliday model of recombination.	
14. Write an account on gene mutation.	
15. Write short note on pedigree analysis.	
16. Give a brief account on Eugenics and Euphenics.	
PART – C	
Answer any TWO questions.	(2x20=40 Marks)
17. Write a detailed account on ABO Blood grouping.	
18. Explain about the CIB method and Muller 5 method.	
19. Discuss about the Bacterial genetics.	
20. Explain about the gene transfer methods by conjugation, tran	nsduction and transformation.

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