LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

B.Sc. DEGREE EXAMINATION - ADVANCED ZOOLOGY AND BIOTECHNOLOGY

FIFTH SEMESTER - NOVEMBER 2017

AZ 5518 - PRINCIPLES OF GENETICS

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Date: 06-11-2017 Time: 09:00-12:00	Dept. No.		Max. : 100 Marks
		PART – A	
Answer ALL the questions:			(10x2=20)
1. Define law of dominance).		
2. What is trihybrid cross?			
3. Define phenylketoneuria			
4. What is transduction?			
5. Define crossing over.			
6. What is MNO blood grou	aping?		
7. What is outbreeding?			
8. Explain pedigree analysis	S.		
9. What is bioethics?			
10. What is amniocentesis?			
		PART – B	
Answer any FOUR questions:			(4x10=40)
11. Explain erythroblastosis	foetalis.		
12. Describe the Mendel's la	w of independe	ent assortment.	
13. What is meant by linkage	e? Explain its ty	pes.	
14. Comment on sex linked §	genes in human.		
15. Write an account on artif	icial inseminati	on.	
16. Write about gene therapy	·.		
		PART – C	
Answer any TWO questions:			(2x20=40)
17. What are multiple alleles	? Explain with	the concept of ABO blood s	grouping.
18. Describe Hardy-Weinbe	rg law with the	factors affecting it.	
19. Write short note on the f	followings:	-	
(i) Sterns experimen	•	ing over	
(ii) Cloning			

20. Write a detailed account on gene manipulation and its consequences.
