LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

Sc. DEGREE EXAMINATION -ADVANCED ZOOLOGY AND BIOTECHNOLOGY FIFTH SEMESTER - NOVEMBER 2018

AZ 5520/AZ 5514/AZ 5507 - GENETIC ENGINEERING

LUCEAT LI	AZ 3320	AZ 5514/AZ 5507 - GENETIC ENGINE	EKING
	02-11-2018 : 09:00-12:00	Dept. No.	Max.: 100 Marks
		PART - A	$(10 \times 2 = 20)$
ANSV	VER ALL THE QUESTION	ONS	
1.	What is a plasmid vector	r?	
2.	Define cosmid.		
3.	Write a note on function	as of DNA.	
4.	What are restriction enzy	ymes?	
5.	What is a bacteriophage	?	
6.	Write a note on cDNA c	eloning.	
7.	What are probes?		
8.	Explain chromogenic su	ibstances.	
9.	Describe GMO.		
10	. Write a note on bioethic		(4. 40. 40)
ANSV	VER ANY FOURQUEST	PART – B TIONS	(4x10=40)
11	. Explain the structure of	DNA.	
12	. Differentiate between pr	rokaryotic hosts and eukaryotic hosts.	
13	. Give an account on alter	rnative DNA.	
14	. Write short notes on		
	i. Adaptors		
	ii. Linkers:		
15	. Explain western blotting	j.	
16	. Comment on the socioet	thical problems in genetic engineering.	
		PART – C	$(2 \times 20 = 40)$
ANSV	VER ANY TWO QUEST		,
17	. Write an essay on protei	in structure and function.	
18	. Discuss in detail the role	e of genetic engineering in agriculture and environr	nent.
19	. Explaina)Endo and exor b) Terminal tra		
	. Explain in detail a) imm screening using nucleic a	nunological screening for expressed genes.	
