M.Sc.(Botany) (CBCS Pattern) Third Semester

PSDBOTT11-2 / PSDBOTT11 - paper-XI

Molecular Biology and Plant Biotechnology-I (DSE-I)

	Pages : ne : Th	1 aree Hour		W/18/11245 x. Marks: 80
	Note	es: 1. 2.	All questions are compulsory and carry equal marks. Draw well labelled diagrams wherever necessary.	
1.			be in detail the Messelson and Stahl's experiment which proved the semi vative mode of DNA replication.	16
			OR	
		Write n	notes on:-	
	a)	Factors	responsible for DNA damage.	8
	b)	Direct a	and Mismatch repair.	8
2.		Write a	an essay on the enzymes commonly used for manipulating DNA.	16
			OR	
		Write n	notes on:-	
	a)	Souther	rn bloting	8
	b)	gDNA	library.	8
3.		Write a	detailed note on production of fusion proteins.	16
			OR	
		Write n	notes on:-	
	a)	PCR pr	rimers	8
	b)	Plasmic	d vectors	8
4.			o you mean by alignment? Write in detail about multiple sequence alignmente on significance of alignment.	nt and 16
			OR	
		Write n	notes on:-	
	a)	Genetic	e polymorphism.	8
	b)	DNA n	nicroarrays.	8
5.		Write s	hort notes on:-	
	a)	DNA H	Helicase	4
	b)	Slot-blo	ot	4
	c)	DNA L	igation	4
	d)	DALI -	(Distance Matrix alignment)	4
