GROWTH DEVELOPMENT BIOTECHNOLGY-II

	Semester - V	
Time	A Noved + 2 Noved	arks: 35
Note	Allowed: 3 Hours] Altempt four questions selecting two question each from Sections A and B. The Sec	tion C is
1010	compulsory	
	Section - A	
1.	Discuss in detail physiological effects of auxins and cytokinins	6
2.	Write a note on physiological role(s) and mechanism of action of Diviocitionic.	· 6
2. 3.	Discuss the role of hormones in seed dormancy, seed germination and fruit ripening.	6
3. 4.	Write notes on the following:	
٦.	(i) Vernalization	
	(ii) Senescence	
	(iii) Nastic movements in plants.	2+2+2
	Section - B	
5. 🤫	Discuss in detail methodology and applications of Southern Blotting.	6
6	Discuss in detail vector mediated method gene transfer in plants.	6 6 6
6. 7.	Describe methodology and applications of embryo culture.	6
8.	Discuss the fole of biotechnology in plant breeding.	6
٠.	Section - C	
9.	Attempt all parts:	
	(ii) Name the physiological role(s) of cryptochrome.	
	(iii) What are advantages of seed dormancy?	
	(iv) How senescene and abscission are related?	
	(v) Which one and why is bigger in size? Genomic library or cDNA library?	
	(vi) Define gene mapping.	
	(vii) Name the method of direct gene transfer in plants.	
	(viii) What is meant by micropropagation?	
	(ix) Name the vectors used in recombinant DNA technology.	
	(x) Define molecular farming.	
	(xi) Define the significance of Taq polymerase.	1×11=11