C 2579	9	(Pages : 2)	Name
			Reg. No
SIXTH SEMESTER B.Sc. DEGREE EXAMINATION, MARCH 2012			
(CCSS)			
Microbiology - Elective			
MB 6B 21 (E2) – CELL AND TISSUE CULTURE			
Time: Three Hours			Maximum: 30 Weightage
Part A			
Answer all questions.			
1.	Expand NAA.		
2.	cDNA is prepared from———		
3.	Agar is:		
	(a) Nutrient.	(b) Solidifying age	ent.
	(c) Enzyme.	(d) Carbon source	
4.	A callus is		
	Expand PEG.		
	Ti plasmid is used for—		
	Use of gene gun is————		
	MS medium is used for———		
9.	Haploidy is		
10.	Protoplasts are		
11.	Enzyme used in protoplast isola		
12. is used for production of virus free plants.			
			$(12 \times 4 = 3 \text{ weightage})$
Part B			
Comme	ent on I		
13.	Cell lines.	14. Secondary met	abolites.
15.	Cytokines.	16. Primary cell lin	nes.
17.	Callus.	18. Surface sterilis	sation.
19.	Inoculation.	20. Factors affecting	ng growth.
21. Somatic hybrids.			
			$(9 \times 1 = 9 \text{ weightage})$

Turn over

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Part C

Write briefly on any **five** of the following. Answer not to exceed **one page.**

- 22. Somaclonal variations.
- 23. Pollen culture.
- 24. Seedless Plants and its production.
- 25. Androgenesis.
- 26. Virus free plants.
- 27. Synthetic seeds.
- 28. Gene transfer methods.

 $(5 \times 2 = 10 \text{ weightage})$

Part D

Answer any two of the following.

- 29. Applications of tissue culture.
- 30. Different types of cultures.
- 31. Testing viability of cells.

 $(2 \times 4 = 8 \text{ weightage})$