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Explain the importance of sterilication in bigsor culture.

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27. Write applications of plant tissue culture.

28. Explain the different types of embryos seen in anglosperms.

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au. Describe polygonum type smoryo sac development.

31. How will you prepare MS medium for tissue culture work ?

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			, April 2021		
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				SCIENCE logy and Palyn	
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Time: 3 Hours					Marks: 4
		SECTION	DN – A		
Answer all:					
1. Which one of	the following	is a stress h	ormone ?		
a) IAA	b) IBA	.ogtime1	c) NAA	d) ABA	
2. The term Paly	nology refers	to			
a) The study	KOMBONIAN IS	b) Study of pollen grains			
c) Study of fossil		anyaqonany	d) None of the	ese and all ma	
3. The outer mos	st layer of pol	len grain is			
a) Exine	b) Intine		c) Epidermis		
4. The first mate	rial used for i	nitiating plar	t tissue cultur	e is called	
a) Callus	b) Merist	em una	c) Explants	d) Embryo	(4×1=4

SECTION - B

Answer any eight:

- 5. Define Somaclonal variation and write its significance.
- 6. How will you prepare Hybrid plants ?

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K21U 0087 -2-

- Explain the principle of plant tissue culture.
- 8. Write steps involved in plant tissue culture.
- 9. Discuss the role of pollen grains in taxonomy.
- 10. Explain Ovary culture. 100 Ing A nothin Impact
- 11. Define Parthenocarpy. Where it is seen?
- 12. Describe the role of tapetum in microsporogenesis.
- 13. What is double fertilization? Who discovered it?
- 14. What is suspension culture ?
- 15. Briefly describe the steps of meristem culture.
- 16. Draw a labelled diagram of monocot embryo.
- 17. How will you sterilize the explants for inoculation?
- Explain the development of Male gametophyte.
- 19. What is acetolysis of pollen? Write its use.
- 20. What are the different types of endosperms seen in angiosperm? (8x2=16

SECTION - C

Answer any four :

- 21. Explain the significances of biodiversity conservation.
- 22. Write a note on in vitro production of disease free plants.
- 23. What is agar-agar? Explain its role and significance.

-3- K21U 0087

- 24. Explain the importance of sterilization in tissue culture.
- 25. Give an account on embryo sac of angiosperm.
- 26. Describe the synthetic seeds production and their significance.
- 27. Write applications of plant tissue culture.
- 28. Explain the different types of embryos seen in angiosperms. (4x3=12)

SECTION - D

Answer any one:

- 29. Write an essay about protoplast fusion, culture and its significance.
- 30. Describe polygonum type embryo sac development.
- 31. How will you prepare MS medium for tissue culture work? (1×8=8)