Class: 12

Register	COLUM	rit.	10	14	100	24
Number	55 /	- 43		10.7	110	STEEL ST

Time Allowed : 3.00 Hours		BOTANY			[Max. Marks : 70		
	Answer All the questions.	. 41			15x1=15		
1	Virus free plants are developed from				10X1=10		
2	a) Organ culture b) Meristem culture	c)	Protoplast culture	d)	Cell Suspension culture		
_	to an indeed Engine in promise is a sed	14)	The state of the s		The second second second		
	a) Southern Blotting	b)	Western Blotting	18			
,	c) Polymerase Chain Reaction	d)		oph	oresis		
3	asset for the production of single	cell p	protein is	P			
	a) cellulomonas b) Alcaligenes	(c)	Spirulina	d)	Agaricus		
4	- The second in the ability to change position is c	alled					
	a) Cistron b) Transposon	c)	Intron	d)	Recon		
<u>5</u> .	"Gametes are never hybrid" This is a statement of	of					
	a) Law of daninance	b)	Law of Independent	ass	ortment		
	c) Law of Segregation) Law of random fertilization				
6.	Ruminate endesperm is found in		N - 11				
	a) Cocos b) Areca	c)	Vallisneria	d)	Arachis		
7.	A plant called X possesses small flower with re pollination would be	educé	ed periant and versa	tile :	anther. The probable agent for		
	a) Water b) air	C	butterflies	_			
8.		7.	The state of the s		beatles		
	A specific place in an ecosystem where an organ a) habitat b) niche						
9.	그렇게 그 회장 하면 어느 한 집에 어떻게 하게 하면 되었다.	C)	landscape	d)	biome		
3.	Soil water available for plants is						
	a) gravitational water	ь)	chemically bound w	ater			
	c) Capillary water	٥)					
10.	Which of the following plant produces cardiac gly	cosic	les.				
3	a) Calotropis b) Acacia	CHARLE	Nepenthes	d)	Utricularia		
11.	Which of the following is not a sedimentary cycle						
	a) Nitrogen cycle b) Phosphorous cycle	c)	Sulphur cycle	d)	Calcium cycle		
12.	The unit for measuring ozone thickness		1300		A CONTROL		
	a) Joule b) Kilos	c)	Dobson	0)	Watt		
13.	Jaya and Ratna are the semi dwarf varieties of			T.			
	a) wheat b) rice	c)	cowpea	d)	musterd		
14.	The active principle trans-tetra hydro can abial is						
	a) Opium b) Curcuma		Marijuana	d)	Andrographis		
	"Queen of spices" is	٠,	in any out to	٠,	raidiographiis		

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d) Tamarind

cardamomum

PART - II

II. Answer any six questions. Question No. 24 is Compulsory.

- What is Vivipary? Name a plant group that exhibits vivipary.
- 17. Productivity of profundal zone will be low. why?
- 18. What is ozone hole?
- 19. Name the chemicals used in gane transfer?
- 20. What are Splicesomes?
- 21. Name the seven contrasting traits of mendel.
- 22. Pollination in Gymnosperms is different from Anglosperms Give reasons
- 23. Write short notes on Pollen Kitt.
- 24. Enumerate the uses of turmeric.

PART - III

III. Answer any six questions. Question No. 33 is Compulsory.

- 25. Write a note on heterosis.
- 26. Write the effects of Global warming in plants
- 27. Pyramid of energy is always upright. Give reasons.
- 28. List out the effects of fire to plants.
- 29. What is thermal stratification? Mention their types.
- Give on account on cryopreservation.
- 31. Write the advantages of Bt cotton
- 32. What is gene mapping? Write its uses.
- 33. Draw and label T. S. of mature anther.

PART - IV

- IV. Answer all the questions.
- 34. (a) What is endosperm. Explain the types.

5x5=25

- (b) Enumerate the anatomical adaptations of xerophytes.
- 35. (a) Generally human activities are against to the ecosystem, where as you a student how will you help to protect

- (b) Differentiate continuous variation with discontinuous variation.
- 36. (a) What attributes make arabidopsis a suitable model plant for molecular genetic research?

OR

- (b) What are the effects of deforestation?
- 37. (a) What are the different types of hybridization?

OR

- (b) Compare the various types of Blotting techniques?
- 38. (a) Explain the basic concepts involved in plant tissue culture.

(b) How will you prepare an organic pesticide from your home garden with the vegetables available from your

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