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Register			
Number		1	

			Part III -	- B	OTANY			
(English Version)								
Tim	e All	owed: 3 Hours]			[Max	dmum Mark	s: 150	
*			SEC1	rion	- A			
	Note: i) Answer all the questions.							
		ii)	Choose and	write	the correct answer	. 30 x	1 = 30	
1. 'Abaca cloth' is obtained from the plant								
	a)	Musa chinensis		b)	Ravenala	T flat e		
	c)	Gossypium	Chapugatto	d)	Musa textilis.	tripo de altitud		
2.	In C	Corypha umbraculife	ra, the spadi	x mea	asures about	REGISCO -		
	a)	5 metres		b)	10 metres		i e	
	c)	1 metre	Polymano	d) .	2 metres.			
3.	Due	to presence of which	ch cells is the	e pul	of Pyrus fruit hard	i ?		
	a)	Brachysclereids		b)	Macrosclereids			
	c)	Osteosclereids		d)	Asterosclereids.	.bheisto		
4.	Bico	llateral vascular bu	ndles are typ	ically	seen in			
	a)	Malvaceae		b)	Solanaceae	*		
	c)	Musaceae		d)	Cucurbitaceae.			
	1.5							

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12.	2. 'Foolish seedling' disease in paddy is caused by						
	a)	Auxin	b)	Gibberellin			
	c)	Abscisic acid	d)	Ethylene.	* 		
13.	The	plant, which produces a protein	that	t is 100 times as	sweet as sugar	ls	
	a)	Pentadiplandra brazzeana					
	b)	Ravenala madagascariensis					
	c)	Cissus quadrangularis			gles la present	iga.	
	d)	Lathyrus odoratus.			Hibacus		
14.	Xan	thomonas citrii causes					
	a)	Tungro disease of rice				est T	
	b)	Blast disease			ins manifest		
	c)	Citrus canker					
	d)	Tikka disease of groundnut.					
15.	5. The common name of 'Arachis hypogea' is						
	a)	Groundnut	b)	Vilvum			
	c)	Pirandai	d)	Avarai.			
16.	Wh	o introduced binomial system?			emoiomonito de		
	a)	Adolf Engler	b)	Gaspard Bauhir	a chromosome		
	c)	Carolus Linnaeus	d)	Charles Darwin			
17.	Nal	ked seeded plants are					
	a)	Gymnosperms	b)	Angiosperms			
	c)	Bryophytes	d)	Fungi.			
A]				[T	um o	ver

23. Which chromosome occurs in cancer cells?

- a) B-chromosome
- b) Polytene chromosome
- c) Lampbrush chromosome
- d) Double minutes chromosome.

24.	4. The functions of 30,000 to 40,000 genes were seen in								
	a)	Man	b)	Chimpanzee					
	c)	Whale	d)	Banyan tree.					
25.	Bio	Bio-chemical mutation has been reported in							
	a)	Sorghum	b)	Neurospora					
	c)	Gibberella	d)	Penicillium.					
26.	The	The essential component for the formation of chlorophyll is							
	a)	Calcium	b)	Potassium					
	c)	Copper	d)	Magnesium.					
27.	Whi	ich of the following wavelengths	of lig	ht is most effective for photosynthesis	?				
	a)	100 nm – 200 nm	b)	400 nm - 700 nm					
	c)	200 nm – 300 nm	d)	700 nm – 900 nm.					
28.	ndew plant is								
	a)	Drosera	b)	Nepenthes					
19	c)	Utricularia	d)	Beggiatoa.					
29.	Complete oxidation of one molecule of glucose yields								
	a)	3 ATP	b)	8 ATP					
	c)	38 ATP	d)	2 ATP.					
30.	Res	Respiratory quotient of glucose is							
	a)	2	b)		C				
	c)	1	·d)	1.33. Statog nobski og dos stosatW	8				
				4					

SECTION - B

Note: Answer any fifteen questions.

 $15 \times 3 = 45$

- 31. Define tautonym. Give an example.
- 32. What is Papilionaceous corolla?
- 33. What is Pyrethrum?
- 34. Describe the Perianth of musa.
- 35. What is a eustele?
- 36. What are autosomes?
- 37. Write any three significances of crossing over.
- 38. What are 'nonsense codons' ? Give example.
- 39. Mention three media of plant tissue culture.
- 40. What are isoenzymes?
- 41. Write down any three differences between cyclic photophosphorylation and non-cyclic photophosphorylation.
- 42. Why is 'Single Cell Protein' (SCP) not popular for human consumption?
- 43. What are total parasitic plants? Give an example.
- 44. Why is Krebs' cycle described as 'amphibolic' process?
- 45. What is compensation point?

- 46. What is Sigmoid curve?
- 47. What is Richmond-Lang effect?
- 48. What is a short day plant? Give an example.
- 49. Write any three aims of plant breeding.
- 50. Write a short note on medicinal importance of Acalypha indica.

SECTION - C

- Note: i) Answer any seven questions including Question No. 55 which is compulsory.
 - ii) Draw diagrams wherever necessary.

 $7 \times 5 = 35$

- 51. Draw the outline of Bentham and Hooker's classification of plants.
- 52. Give an account of economic importance of Euphorbiaceae.
- 53. What are the different types of collenchyma? Explain with diagram.
- 54. Describe the structure of periderm.
- 55. Draw and label the parts of a transverse section of a dicot leaf.
- 56. Draw and label the structure of transfer RNA.
- 57. Write the differences between DNA and RNA.
- 58. Give a brief account of herbicide resistance in transgenic plants.
- 59. Write any five outcomes of application of plant tissue culture.
- 60. Write the significance of Pentose phosphate pathway.
- 61. Explain the test-tube and funnel experiment.
- 62. Write an account on Bio-war.

SECTION - D

- Answer any four questions.
 - ii) Draw diagrams wherever necessary.

- Write a note on the method of preparation of herbarium briefly. 63. a)
 - Bring out any five significances of herbarium. b)
- 64. Describe Datura metal in botanical terms. Draw floral diagram and write floral formula.
- 65. Describe the transverse section of a dicot root with a diagram.
- 66. Write an account on chromosomal abberrations on the basis of its structure.
- 67. Write an essay on DNA recombinant technology.
- 68. Explain two theories on the mode of action of enzyme.
- 69. What is Glycolysis? Draw the flowchart of the process of Glycolysis.
- 70. Bring out the economic importance of cotton and teak.