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Register				
Number		1		

			Part III -	- B	OTANY	c kontantia (b.		
(English Version)								
Tim	e All	owed: 3 Hours]	(+ ngh			[Maximum Marks : 150		
SECTION - A								
		Note: i)	Answer all th	he qu	uestions.	CO		
	ii) Choose and write the correct answer. $30 \times 1 = 30$							
			. Itlaatta			nosurasa 6		
1.	'Aba	aca cloth' is obtaine	d from the pla	ınt	enon sin	S. Which one of the fr		
	a)	Musa chinensis		b)	Ravenala	inter a cell 7 in .		
	c)	Gossypium	Composite	d)	Musa textilis	alkyontoolii la		
2.	2. In Corypha umbraculifera, the spadix measures about							
	a)	5 metres	16	b)	10 metres	streiguos proteinas		
	c)	1 metre	*O	d)	2 metres.			
3.	Due	to presence of whi	ch cells is the	e pul	p of Pyrus fru	it hard?		
	a)	Brachysclereids		b)	Macrosclerei	ds		
	c)	Osteosclereids		d)	Asterosclerei	ds.		
4.	Bico	ollateral vascular bu	indles are typ	ically	seen in			
	a)	Malvaceae		b)	Solanaceae	11. The grandest used to		
	c)	Musaceae		d)	Cucurbitacea	e.		
	1				*	Turn oran		

2, 4-D

Urea.

d)

a)

c)

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ABA

12.	'Foo.	lish seedling disease in paddy is	Cau	seu by		
	a)	Auxin	b)	Gibberellin		
	c)	Abscisic acid	d)	Ethylene.	eli e a Leos do	
13.	The	plant, which produces a protein	that	is 100 times as sw	eet as sugar i	ls
	a)	Pentadiplandra brazzeana				
	b)	Ravenala madagascariensis			emontale.	
	c)	Cissus quadrangularis			20	20. 20
	d)	Lathyrus odoratus.				
14.	Xan	thomonas citrii causes				
	a)	Tungro disease of rice				
	b)	Blast disease		70,		le le
	c)	Citrus canker			aller with?	
	d)	Tikka disease of groundnut.	٥			
15.	The	common name of 'Arachis hypo	gea' i		inosudia musi	
	a)	Groundnut	b)	Vilvum		
	c)	Pirandai	d)	Avarai.		
16.	Who	o introduced binomial system?			beomands de	
	a)	Adolf Engler	b)	Gaspard Bauhin	macaire de A	
	c)	Carolus Linnaeus	d)	Charles Darwin.		
17.	Nak	red seeded plants are				
	a)	Gymnosperms	b)	Angiosperms		
	c)	Bryophytes	d)	Fungl.		
A]				[7	urn over

43	45		4	
18	. In	Ixora coccinia the phyllotaxy is		H Jehnig to Bussie griffings the
	a)	whorled	b)	spiral
•	c)	opposite decussate	d)	alternate.
19	. As	teraceae family is placed under	r the se	eries
	a)	Bicarpellatae	b)	Thalamiflorae
	c)	Calciflorae	d)	Inferae.
20.	Ep	icalyx is present in		
	a)	Hibiscus	b)	Musa
*	c)	Plsum	d)	Helianthus.
21.	The	cells responsible for curling a	nd unc	oiling in leaf are
	a)	Bulliform cells	b)	Passage cells
	c)	Silica cells	d)	Companion cells.
22.	The	term 'Alburnam' refers to		Common harre of Arachis Incomes
	a)	Heartwood	b)	Tyloses
	c)	Sapwood	d)	Periderm.
23.	Whi	ch chromosome occurs in cane	cer cell	s ?
	a)	B-chromosome		intendition)
	b)	Polytene chromosome		Carphia Limacus
	c)	Lampbrush chromosome		sed seeded plants are

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.	n of chlorophyll is								
	a)	Calcium	b)	Potassium					
	c)	Copper	d)	Magnesium.					
27.	Whi	ch of the following wavelengths	of ligh	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.	28. The plant that is commonly known as Sundew plant is								
	a)	Drosera	b)	Nepenthes					
10	c)	Utricularia	d)	Beggiatoa.					
29.	Con	cose yields							
	a)	3 ATP	b)	8 ATP					
	c)	38 ATP	d)	2 ATP.					
30.	Resp	Respiratory quotient of glucose is							
	a)	2	Ъ)	ensi da bedi seso silon kata e valik O	0				
	c)	1	·d)	1.33. Stated nobles requires at had W					

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

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

 $4 \times 10 = 40$

- 63. a) Write a note on the method of preparation of herbarium briefly.
 - b) Bring out any five significances of herbarium.
- 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.