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Part III — BOTANY

(English Version)

Time Allowed: 3 Hours | [Maximum Marks: 150

SECTION - A

Note: i) Answer all the questions.

ii) Choose and write the correct answer. $30 \times 1 = 30$

1. 'Abaca cloth' is obtained from the plant

a) Musa chinensis

b) Ravenala

c) Gossypium

- d) Musa textilis.
- 2. In Corypha umbraculifera, the spadix measures about
 - a) 5 metres

b) 10 metres

c) 1 metre

- d) 2 metres.
- 3. Due to presence of which cells is the pulp of Pyrus fruit hard?
 - a) Brachysclereids

b) Macrosclereids

c) Osteosclereids

- d) Asterosclereids.
- 4. Bicollateral vascular bundles are typically seen in
 - a) Malvaceae

b) Solanaceae

c) Musaceae

d) Cucurbitaceae.

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5.	Pro	toxylem lacuna is found in		
	a)	Dicot stem	b)	Monocot stem
	c)	Dicot root	d)	Monocot root.
6.	Nul	lisomy is represented by		ets et 20
	a)	2n + 2	b)	2n+1 smioH & Description
	c)	2n-2	d)	2n-1.
7.	The	drug used to treat diabetes is		Up toward. If sold
	a)	Penicillin	b)	Insulin (7) (h)
	c)	Bacitracin	d)	Nicotin.
8.	Wh	ich one of the following proces	ses is	s employed to introduce a foreign gene
	into	a cell ?		and the second s
	a)	Electrolysis	b)	Conjugation
	c)	Osmosis	d)	Gene gun method.
9.	The	two protoplasts are fused with	a fusc	ogen called
	a)	Polyethylene glycol	b)	Polyvinyl chloride
	c)	Polysaccharide Polysaccharide	d)	Phosphoglyceric acid.
10.	An	example of enzyme inhibitor is		eble with the search of the
	a)	Cyanide	b)	Mn ²⁺
	c)	Mg ²⁺	d)	NAD + .
11.	The	chemical used in the field to era	adicat	te weeds is
	a)	IAA	b)	2, 4-D

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d) Urea.

c)

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12.	'Foo	lish seedling' disease in paddy is	caus	sed by	Ely.
	a)	Auxin	b)	Gibberellin	
	c)	Abscisic acid	d)	Ethylene.	6
13.	The	plant, which produces a protein	that	is 100 times as sweet as sugar	is
	a)	Pentadiplandra brazzeana			
* 79	b)	Ravenala madagascariensis			
	c)	Cissus quadrangularis			20. 29%
	d)	Lathyrus odoratus.			
14.	Xan	thomonas citrii causes			
	a)	Tungro disease of rice			•
	b)	Blast disease		Day Butters and Storeton Seat only	
	c)	Citrus canker			
	d)	Tikka disease of groundnut.	6		
15.	The	common name of 'Arachis hypog	gea' is	or ends, manualla mis	
	a)	Groundnut	b)	Vilvum	
	c)	Pirandai	d)	Avarai.	
16.	Wh	o introduced binomial system?			
	a)	Adolf Engler	b)	Gaspard Bauhin	4
	c)	Carolus Linnaeus	d)	Charles Darwin.	
17.	Nal	ked seeded plants are			
	a)	Gymnosperms	b)	Angiosperms	
	c)	Bryophytes	d)	Fungl.	6
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434	.5		4		1.
18.	In	Lxora coccinia the phyllotaxy is		al vehille of sales gilliones through	1 2
	a)	whorled	b)	spiral	
	c)	opposite decussate	d)	alternate.	
19.	Ast	teraceae family is placed under t	he se	eries	
	a)	Bicarpellatae	b)	Thalamiflorae	
	c)	Calciflorae	d)	Inferae.	
20.	Epi	calyx is present in			
	a)	Hibiscus	b)	Musa	
	c)	Pisum	d)	Helianthus.	
21.	The	cells responsible for curling and	unce	oiling in leaf are	
	a)	Bulliform cells	b)	Passage cells	
+	c)	Silica cells	d)	Companion cells.	
22.	The	term 'Alburnam' refers to		The section of Area Section Common art	
	a)	Heartwood	b)	Tyloses	
	c)	Sapwood	d)	Periderm.	
23	Whi	ch chromosome occurs in cancer	cells	s ?	
8	a)	B-chromosome		referred 2 octor (s	
t	o)	Polytene chromosome		c) - Camphia Langeone	
C		Lampbrush chromosome	**	National aceded plants are	

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Double minutes chromosome.

d)

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				Stille	
			5	(Alle)	
24.	The	functions of 30,000 to 40,000	genes	were seen in	
	a)	Man	b)	Chimpanzee	
	c)	Whale	d)	Banyan tree.	
25.	Bio-	chemical mutation has been re	eporte	d in	
	a)	Sorghum	b)	Neurospora	
	c)	Gibberella	d)	Penicillium.	
26.	The	essential component for the for	rmatio	on of chlorophyll is	
	a)	Calcium	b)	Potassium	
	c)	Copper	d)	Magnesium.	
27.	Whi	ich of the following wavelengths	s 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.	The plant that is commonly known as Sundew plant is				
	a)	Drosera	b)	Nepenthes	
	c)	Utricularia	d)	Beggiatoa.	
29.	. Complete oxidation of one molecule of glucose yields				
	a)	3 АТР	b)	8 ATP	
	c)	38 ATP	d)	2 ATP.	
30.	Resp	piratory quotient of glucose is	-	43. What are total paraettic plants 7 Give	
	a)	2 Sectoring to	ъ)	the same as bedraced described as same 0	
	c)	1	·d)	1.33. States and a second of the second of t	
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SECTION - B

Note: Answer any fifteen questions.

VeniBounty.com $15 \times 3 = 45$

- 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 noncyclic 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?

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- 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.

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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.

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