[Time: Three Hour
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[ Marks:100]

10

Please check whether you have got the right question paper.

N.B: 1. All questions are compulsory.

- 2. Figures to the right indicate marks.
- 3. Draw neat and labelled diagrams wherever necessary.

i.	is a marine alga and is commonly known as 'Gulfv			
	a. Sargassum	b. Ectocarpus		
	c. Dictyota	d. Laminaria		
ii.	In Phaeophyta, the reserve food material occurs in the form of			
	a. starch	b. laminarin and mannitol		
	c. glucose	d. glycogen		
iii.	The internal structure of Anthoce	ros is		
	a. isomorphic	b. heterogenous		
	c. homogenous	d. heteromorphic		
iv.	In Funaria, each set of peristome	consist of teeth.		
	a. 8	b.18		
	c.32	d.16		
v.	Diadelphous stamens are found in			
	a. Caesalpinae	b. Mimosae		
	c. Papilionaceae	d. Asteraceae		
vi.	Helianthus annus belongs to fam	ily .		
75	a. Asteraceae	b. Palmae		
555	c. Leguminosae	d. Amaranthaceae		
vii.	Rank ending in '- ales' denotes	· · · · · · · · · · · · · · · · · · ·		
99,00	a. Family	b. Division		
	c. Cohort	d. Class		
viii	. Tamarind is botanically known a	as		
	a. Tamarindus indica	b. Areca catechu		
	c. Butea monosperma	d. Celosia argentia		
ix.	The universally accepted size of a	a herbarium sheet is		
P. S.	a. 12" X 18"	b. 11.5" X 16.5"		
3	c. 10" X 16"	d. 16" X 16"		

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	x. Partition in buffer tanks of electrophoretic unit helps to prevent alternat			
		a. pH	b.current	
		c. voltage	d. separation	800
Λ1	D)	A		40
i.		Answer the following in <b>one or two</b> sentences.  Mention any two economic importance of brown algae.		10
		· ·	Name the outer and inner wall layers of <i>Funaria</i> spores.	
		What is syngenesious anther? Give an example.		
		What is Plant Taxonomy? Name the father of Plant Taxonomy.		
		Name any two types of preservation methods of plant specimens.		
	٧.	Name any two types of preservation	methods of plant specimens.	, , , , , , , , , , , , , , , , , , ,
Q.2		Answer <b>any two</b> of the following.		20
	i.	Describe the range of thallus structur	re in Phaeophyta.	
	ii.	Describe the external morphology of position.	Sargassum. Add a note on its systematic	
	iii	With reference to Funaria explain:		
		a) T.S. of leaf (phylloid) b) T.S	of stem	
	iv.		the internal structure of sporophyte of	
Q.3		Answer <b>any two</b> of the following.		20
Q.J	i.	Give the systematic position, disting	uishing characters and floral	20
	1.	formula of subfamily - Caesalpinae.	disting characters and north	
	ii	Assign any two plants to their respect	tive subfamily / family giving	
	11.	reasons and give its economic impor		
		a. Caryota urens		
		b. Celosia argentea		
		c. Clitoria ternatea		
	iii	. Describe the importance of embryolo	ogy in relation to Taxonomy.	
29		. Discuss the rules of ICBN.	8	
Q.4		Answer any two of the following.		20
	1.0		Compound Microscope	
	ii.	Describe the process of making Herb	-	
	~ / Y	Discuss the principle, construction a electrophoresis		
45°95	iv.	. Give a detailed account of TLC and	its applications	
	300	\$\\ \alpha \alph		

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Q.5 Write short notes on any four.

- i. Male conceptacles in Sargassum.
- ii. Vegetative reproduction in Anthoceros.
- iii Economic importance of subfamily Mimosae.
- iv. Taxonomy in relation to ecology.
- v. Resolution of light microscope and factors affecting it.
- vi. Advantages and disadvantages of Electron microscope.

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