# Note the below:

<ol> <li>All the questions are compulsory</li> </ol>	1.	All the	questions	are	compu	sorv
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- 2. Draw neat & suitable diagrams wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1A C	hoose the correct o	ptio	n & rewrite the st	aten	nents		(10 marks)	
		lots	arranged in two lor	gitu	dinal rows on adaxial	l(do	rsal) surface along the	
margins	of each pinna.							
					Chloroplast			
		-like	parenchymatous	stru	acture providing not	urish	ment to the developing	
sporang								
				c)	Indusium	d)	Sorus	
	nced types of Steles							
				c)	Solenostele	d)	Atactostele	
	largest sperms are f							
					Mango		Cycas	
					erms and angiosperms			
					Coniferales	d)	Gnetales	
	yeas, the endosperm							
a)					pre fertilization oduct and diploid		pre fertilization product I haploid	
7. This	is considered to be	a liv	ing fossil					
a)	Podocarpus	b)	Zamia	c)	Cycas	d)	Pinus	
8. Wh	ich of the following	is a	member of the fam	ily N	Malvaceae			
a)			Polyalthia longifolia		Hibiscus cannabinus	d)	Cucurbita maxima	
Q In F	icus species		type of inflores	cenc	re is present			
					Verticillaster	d)	Racemose	
	e main axis of inflor							
					Pedicel	d)	Petiole	
Q.1B	Answer the following	ng in	one sentence				(10 marks)	
a)	Define Ramentun	1.						
b)	Define Protostele							
c)	What is the normal roo of Cycas?							
d)	Which ovule is pr	esen	it in Cycas?		1 - 1			
e)	Versatile anthers.							

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## Q.2 Answer any two from the following

(20 marks)

- a) Explain the structure of Nephrolepis stolon with a neat and labeled diagram.
- Explain the structure of T.S. of pinna passing through sorus with a neat & labeled diagram.
- Write down the systematic position of Nephrolepis. add a note on alternation of generation.
- d) Explain the different types of Siphonostele and draw a neat labeled diagram.

## Q.3 Answer any two from the following

(20 marks)

- a) Give details in life cycle and alternation of generation of Cycas.
- b) Write a brief note on the economic importance of Gymnosperms.
- c) Describe T.S. of leaflet of Cycas revoluta
- d) Describe structure and development of male and female cones of Cycas.

#### Q.4 Answer any two from the following

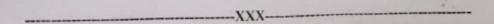
(20 marks)

- Explain the various types of reticulate venation. Give suitable examples and support your answer with labeled diagrams.
- b) With the help of suitable examples, explain the different Cymose type of inflorescence studied by you.
- Give the classification with reasons, distinguishing characters and 2 plant of economic importance of the family Malvaceae
- d) Give the classification with reasons, distinguishing characters and 2 plant of economic importance of the family Amaryllidaceae

#### O.5 Write short notes on (any four)

(20 marks)

- a) External morphology of Nephrolepis
- b) Actionstele.
- c) Coralloid roots
- d) Morphology of Cycas Stem
- e) Explain any five types of stipules with examples.
- f) Cyathium



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