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(6th Semester)

BOTANY

TENTH PAPER

(Angiosperm Taxonomy, Anatomy and Embryology)

Full Marks: 55

Time: 2½ hours

(PART : B-DESCRIPTIVE)

Give account is on the to emerge

(Marks: 35)

The figures in the margin indicate full marks for the questions

1. Give the comparative account of Bentham and Hooker's and Hutchinson's systems of classification.

With about noise of Orio screen noise why

What is the difference among artificial, natural and phylogenetic systems of classification?

2. What do you mean by botanical garden?
Write a note on the importance of botanical garden.

2+5=7

Or

Describe in brief the evolution of angiosperms.

7

3. Describe the distinguishing characters of any one of the following families giving floral diagram and floral formula:

7

- (a) Rutaceae
- (b) Convolvulaceae

Or

Give accounts on the following:

31/2+31/2=7

- (a) Economic importance of Leguminoceae
- (b) Floral characters of Liliaceae
- 4. Define cambium. Describe secondary growth in stelar and ex-stelar regions of dicot stem.

1+6=7

Or

Write short notes on the following: $3\frac{1}{2}+3\frac{1}{2}=7$

- (a) Anatomical features of xerophytes
- (b) Anomalous secondary growth

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G15-350/356a

(Continued)

5. Describe the development of embryo in typical dicotyledonous type (crucifer type). What is endosperm? Give an account on the development and function of endosperm.

1+6=7

Or

Briefly describe the following:

31/2+31/2=7

- (a) Advantages and disadvantages of selfpollination
- (b) Tetrasporic type of embryo sac

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(6th Semester)

BOTANY

TENTH PAPER

(Angiosperm Taxonomy, Anatomy and Embryology)

(PART : A—OBJECTIVE)

(Marks : 20)

The figures in the margin indicate full marks for the questions

Answer all questions

SECTION—A

(Marks: 5)

same off to the top

1	Put a Tick (1) mark against the correct answer in	n the
1.		1×5=5
	brackets provided:	1/0-0

(a)	Pap	pus is present	in		n socialogyloH	$\langle n \rangle$
	(i)	Asteraceae		()	
	(ii)	Annonaceae	1	(Magazinece 🗽	i, ir
	(iii)	Verbenaceae		()	
	(iv)	Cyperaceae		1 (Orchelemean (101

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(b)	Th an	e system of classification given by Bentham d Hooker is
	(i)	natural ()
	(ii)	phylogenetic ()
	(iii)	artificial () mass organis
	(iv)	
		(Monks - 20)
st')	9.4.0	The Lighnes in the margin and model for the
		enoless plia revent
(c)	Pol	linium is found in
od* rf	(ï)	Euphorbiaceae ()
	(ii)	Polygonaceae (110) and a language (110)
	(iii)	Zingiberaceae ()
	(iv)	Orchidaceae ()

(d)	A ric	iged and furrowed	i stele	is fo	ound	in		
	(i)	Amaranthus sten		()			
	(ii)	Mirabilis stem					n Jiro	
	(iii)	Bignonia stem	()		0.1, 37	10 (1	
	(iv)	All of the above	()				
(e)	first	type of embryo division of the		-				
	(i)	crucifer type	(,)		-	į.	
	(ii)	piperad type	()				
	(iii)	asterad type	()				
	(iv)	solanad type	()				

SECTION—B

(Marks: 15)

(e) The type of embern devolorment in which the

ital civision of the east on a longitudinal is

2. Write short notes on the following:

 $3 \times 5 = 15$

(a) Chemotaxonomy

(b) Holotype

(c) Three economically important plants of Cyperaceae (d) Cambium activity

let Polyembryony

. . .