Botany [Honours] [CBCS]

B.Sc. Third Semester End Examination-2023

(Regular & Supplementary Paper)

PAPER-C5T

ANATOMY OF ANGIOSPERMS

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as

far as practicable

Illustrate the answers wherever necessary

Group A

1)	Answer any FIVE questions of the following:	5 x 2= 10
a.	Define cyto differentiation and organogenesis.	1+1
b.	What is the meaning of plasmodesmata state its function	. 1+1
c.	What do you mean by tyloses?	
d.	Write two examples of glandular and two for non-g	glandulaı
	trichomes.	1+1
e.	Mention four anatomical adaptations of Xerophytes	
f.	Define ergastic substances.	

What do you mean by "apical meristem and Laficiferous.

h. Differentiate between heart wood and sap wood.

Group B

2.	Answer any FOUR questions of the following:	4x5 = 20
a)	Write the difference between	
	i) Simple and complex tissue	
	ii) Tracheary elements and sieve elements.	21/2+ 21/2
b)	What do you mean by trichomes? Mention their	types. What is
	the function of vascular camficm.	3+2
c)	Describe about anomalous secondary growth o	f Aristolochia
	with diagram.	
d)	Write about Tunica Corpus theory and Histogen th	eory.

- e) Describe about development of peridern with diagram.
- f) Differentiate between
 - i) Ring and diffuse porous wood
 - ii) Early and late wood

21/2+21/2

Group C

- 3. Answer any ONE question of the following: 1x10 = 10a) Write about the various types of stomata according to Metcalfe
- and Chalk with diagram and examples.
- b) Write a note on mechanical tissue distribution and significance. What are the applications of plant anatomy in systematics. 4+2+4