Roll No.

(01/22-II)

5205

B. Sc. EXAMINATION

(Third Semester)

BOTANY

Second Paper

Plant Anatomy

Time: Three Hours

Maximum Marks: 40

Note: Attempt Five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

- 1. (i) Prosenchyma
 - (ii) Amphivasal Vascular Bundle
 - (iii) Periderm
 - (iv) Anisocytic Stomata
 - (v) Trichomes
 - (vi) Who proposed the Apical Cell Theory?

P.T.O.

	(vii)	Quiescent Centre	
	(viii) Blennials. 1×	8=8
		Unit I	
2.	(a)	With well labelled diagrams explain structure of xylem.	the
	(b)	Describe the Histogen theory regar	ding
		shoot apex. 4>	<2=8
3.	Writ	te short notes on the following:	
	(a)	Meristematic Tissues	3
	(b)	Annual Plants	2
	(c)	Cambium Structure.	3
4.	Disc	cuss in detail about the anoma	alous
		ndary growth in <i>Boerhaavia</i> sp.	8
5.	Diffe	erentiate between:	
	(a)	Sap wood and Heart wood	3
	(b)	Early wood and late wood	2
	(c)	Meristematic and permanent tissues	. 3

Unit II

6.	(a) Draw a well labelled diagram of monoco		
		leaf.	
	(b)	T.S. of dicot root.	
7.	Wri	te short notes on the following:	
	(a)	Phyllotaxy 3	
	(b)	Leaf abscission.	
	(c)	Stomatal apparatus. 2	
8.	(a)	Write an account of structural modifications in respiratory roots with a	
		well labelled diagram.	
	(b)	Functions of epidermis. 2	
9.	Writ	te short notes on the following:	
	(a)	Pinnately compound leaf	
	(b)	Structure of a typical dicot root with histological oranization. 4×2	