

ENROLLMENT NO:	031BPB146	T062	
NAME OF SUBJECT :	Botany		
SEMESTER:	3rd	SUBECT CODE :	RSR 30IT
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Q.NO.						
	Part-A					
	QI. Multip	le Choice Que	stions			
	· ·					
		ip cells are di	vided according to -	the Korper-Kappe		
	model -					
	(c) In thr	ee parts				
	(::) P:colle	ulonal vaca da	r bundle is found in	2		
	(b) Cucur		r bungle is loung in	_		
	(b) cacai	bi j u				
	(iii) Heterophylly is found in -					
	(b) Ranunculus					
		spores are m	ostly -			
	(a) Haploi	id				
	(.) [a]		_ · ·			
	(b) Two +	growth occurs	5 IN -			
	(D) (WO)	ypes				
	Part-B					
	Q.1 Write	a note on the	e maturation of fru	uit.		
			t involves several p			
	biochemical changes. As fruits mature, they undergo processes such as the conversion of starches to sugars,					
	processes	s such as the	conversion of star	ches to sugars,		
	the breakdown of chlorophyll, changes in color, texture, and aroma, and the production of ethylene, which acts as a					
	ui vina, a	id the broduc	Holl of ethylelle, MI	ilen acts as a		

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	ANSWER SHEET	
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	ne. The cell walls soften, making , and the seeds inside mature, p nation.	
Q.2 Draw a non	ninal image of a cross-section o	of a seed leat
(cotyledon) colu - Epidermis: Th - Mesophyll: Co	e of a cross-section of a seed umn typically shows the following outermost layer. Imposed of parenchyma cells. It dies: Scattered throughout the	ng features:
![Cross-section	of a cotyledon]	
(https://www.wo	ondriumdaily.com/wp-	12
	s/2016/08/seed_anatomy.jpg)	
·		
Q.3 Describe th	ne common functions of the roo	· † .
The root perfo	rms several essential functions,	, including:
- Anchorage: Securing the plant firmly in the soil.		oil.
- Absorption: Taking up water and nutrients from the		om the soil.
- Storage: Stor	ing food and nutrients, such as	
carbohydrates.	-	
,	ransporting water and nutrients	from the
	parts of the plant.	
- Hormone pro	duction: Synthesizing hormones	that regulate
plant growth a	nd development.	

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	Q.4 Write	a short note on microsporogenesis.
	pollen gro It begins (pollen mon haploid m mitotic di	rogenesis is the process by which microspores, or ains, are formed in the anthers of flowering plants with the division of diploid microsporocytes other cells) through meiosis, resulting in four aicrospores. These microspores then undergo ivisions and differentiation to become mature ains, each capable of fertilizing an ovule.
	Q.5 Write	a short note on heterophylly.
	leaves on factors s stages, o (buttercu minimize broader a adapt to	ylly refers to the occurrence of different types of the same plant. This can be influenced by various uch as environmental conditions, developmental r plant parts. For example, in Ranunculus p), submerged leaves are finely dissected to resistance to water, whereas aerial leaves are and undivided. Heterophylly allows the plant to different environments and optimize its ical functions.
	Part-C	
	Q.I Descri	be the types of leaf tendril.
	Leaf tend	rils are specialized structures that help plants

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	climb and suppo	rt themselves There are seve	eral types:
	1 Whole Leaf Te	rt themselves. There are seve ndrils: The entire leaf transfo	rms into a
		in Lathyrus (sweet pea).	i ins iiio u
			وانتا والمالينا
		ls: Only the leaflets transform	into tendriis,
	as in Pisum (pea		1 1 1
		ils: The stipules develop into	tendrils, as in
	Smilax.		_
		let Tendrils: The terminal leafle	
	compound leaf t	ransforms into a tendril, as i	n Clematis.
	·		
	These modificati	ons help plants secure thems	elves to
	various surfaces	s, allowing them to reach sun	light more
	effectively.	o, an wing men , tousing	ng.,,
	011001111019.		
	0.2 Differentiate	the primary and internal ctr	ucture of a
		the primary and internal str	ucture of a
	dicot root.		
	S C1 1		
	,	re of a Dicot Root:	
		outermost layer that provid	
		sts of parenchyma cells that s	
	- Endodermis: A	single layer of cells with Cas	parian strips
	that regulate wo	ater flow.	
		ver of cells just inside the end	dodermis,
	where lateral ro		•
		les: Arranged in a central cylin	der with
		m in an alternating radial pat-	
	Ayloth alla phioci	In an arrotharing tadiar par	, VI II.
	Internal Structu	re of a Dicot Root (Secondary	(Growth).
	THISTIAL STIACTA	a o o a bicol kool (secolidal)	CICWIII.

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	Dan: Jane	Donly and the entire was to allow weeks and according
_		Replaces the epidermis in older roots, consisting
		rk cambium, and phelloderm.
		y Xylem and Phloem: Formed by the vascular
		ncreasing the root's girth.
	- Vascular	Cambium: A lateral meristem that produces
	secondary	xylem (wood) inward and secondary phloem
	outward.	
	03 Deccri	be the different types of fruits.
	W.5 Descri	he the different types of fruits.
		be categorized into several types based on their t and structure:
	flower. Ex	ruits: Develop from a single ovary of a single imples include:
	- Fleshy Fruits: Such as berries (grapes, tomatoes), dru (peaches, cherries), and pomes (apples, pears).	
	- Dry Fru	ts: Such as capsules (cotton, poppy), legumes
(beans, peas), and nuts (acorns, chestnuts).		s) and nuts (acorns chestnuts)
	(204)(0)	o,, and have (act the, theothare).
	2. Aggrega flower. Ex blackberri	e Fruits: Form from multiple ovaries of a single imples include strawberries, raspberries, and s.
	3. Multiple	Fruits: Develop from the ovaries of multiple
		owing in a cluster. Examples include pineapples,
	figs, and n	ulberries.
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