GPLUS EDUCATION

Tin	Date: Time: Marks: ANATOMY OF FLOWERI	NG PLANT	BIOLOGY
	Single Correct Answer Ty		
1.	1. Cambium activity is		
	a) More active towards the periphery of stem		
	b) More active towards the lateral sides of stem		
	c) More active towards the inner side of stem		
	d) Same on the both sides		
2.	2. Cambium is a type of		
	a) Apical meristem		
	b) Intercalary meristem		
	c) Lateral meristem		
	d) Permanent of mature meristem		
3.			
		enchyma	d) Sclerenchyma
4.		•	
		een two vascular	bundles
_		de the bundle	
5.			
	a) Premature having ability of division		
	b) Mature does not have ability of division	O. S. I.	
	c) Premature not having ability of divisiond) Complex differentiating in xylem, phloem and cambium	ON	
6.		nued formation a	nd accumulation of 29
0.	xylem	nucu ioi manon a	nd accumulation of 2
	II. 1° xylem remains more or less intact in or near the centre		
	III. Secondary growth results in an increase in the length of th	e axis	
	Select the correct statements		
	a) I and II b) II and III c) I and	III	d) I, II and III
7.			•
	a) It is light and compressible b) Non-		
	c) Sufficiently resistant to fire d) All of	the above	
8.	8. Medullary rays are formed by the		
	a) Radially placed parenchymatous cells between vascular bu	ndles	
	b) Longitudinally placed parenchymatous cells between vascu	ılar bundles	
	c) Laterally placed parenchymatous cells between vascular b	ındles	
	d) Obliquely placed parenchymatous cells between vascular b		
9.		otion	
	A		

- a) A-Epidermal cell, B-Guard cell, C-Subsidiary cell, D-Chloroplast
- b) A-Epidermal cell, B-Subsidiary cell, C-Chloroplast, D-Guard cell

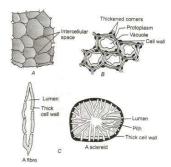
	c) A-Epidermal cell, B-Chloroplast, C-Subsidiary cell,	, D-Guard cell			
	d) A-Guard cell, B-Chloroplast, C-Subsidiary cell, D-Epidermal cell				
10.	The jute fibres anatomically are				
	a) Bast fibres b) Cortical fibres	c) Xylem fibres	d) Pith fibres		
11.	The merismatic tissue responsible for the cutting of	vascular tissue (xylem and	phloem) is called		
	a) Cork cambium b) Vascular cambium	c) Lateral meristem	d) Endodermis		
12.	Secondary phloem of a dicot root is made up of				
	I. sieve tube				
	II. companion cell				
	III. phloem parenchyma				
	Select the correct option for given statement				
	a) I and II b) II and III	c) I and III	d) All of these		
13.	The internal structure of a plant stem is observed. The	here is a discontinuous ring	g of angular collenchyma		
	below the epidermis. Type of vascular bundles are o	f the same type as in the sto	ems of solanaceous plants.		
	Sieve tube elements possess simple sieve plates, iden	ntify the plant.			
	a) <i>Helianthus</i> b) <i>Cucurbi ta</i>	c) <i>Zea mays</i>	d) <i>Hydrilla</i>		
14.	The innermost layer of cortex is called				
	a) Epidermis b) Casparian strips	c) Endodermis	d) Pericycle		
15.	Amphistomatic leaf is				
	a) Dicotyledonous leaf	b) Monocotyledonous lea	f		
	c) Both (a) and (b)	d) None of these			
16.	6. Which is not a characteristic of plant cell walls?				
	a) Found only in the sporophyte phase of life cycle				
	b) Among other compounds contains compounds bu	ilt of simple sugars			
	c) May contain enzymes that are biologically active				
	d) Often contain strengthening polymers				
17.	The ring arrangement of vascular bundle is the chara	acteristic feature of			
	a) Dicot root b) Monocot root	c) Monocot stem	d) Dicot stem		
18.	Primary meristem is	11/1/1/14			
	a) Apical meristem	b) Intercalary meristem			
	c) Root apical meristem and shoot apical meristem	d) Both (a) and (b)			
19.	I. These tissue are found as layers or patches				
	II. It consists of cells which are thickened at the corn	ers			
	III. It often contains chloroplast				
	IV. Intercellular spaces are absent				
	V. They provide mechanical support to growing part	s of plants			
	The above characters are attributed to				
	a) Vascular tissue	b) Collenchyma			
	c) Parenchyma	d) Simple sclerenchyma			
20.	Examples for lateral meristems are				
	a) Phellogen and procambium	b) Fascicular cambium ar	_		
	c) Procambium and dermatogen	d) Fascicular cambium ar	id cork cambium		
21.	Medullary or pith ray is the	, , ,			
	a) Radial strip of parenchyma which is present betw				
	b) Radial strip of collenchyma which is present betw				
	c) Radial strip of sclerenchyma which is present bet	ween vascular bundles			
20	d) The another name of stele	1			
22.	Which of the function in the given options does not be	=	τ?		
	a) Conduction of water from the root hairs to the inr	ier tissue			
	h) Storage of food				

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			roduce protective exodermis	in the older roots	
	d) Presence of secondary	~			
23.	Conjoint vascular bundle		_		
	a) Roots	b) Stems	c) Leaves	d) Both (b) and (c)	
24.	Periderm is produced from				
	a) Cork cambium	b) Procambium	c) Secondary cortex	d) Vascular cambium	
25.	In stem, the xylem is				
	a) Exarch	b) Mesarch	c) Endarch	d) All of these	
26.	Root apical meristem is d				
	a) Plumule part of embry				
	b) Scutellum part of emb	- -			
	c) Radical part of embryo	3			
	d) Endosperm part of em	ibryo			
27.	Which of the following pl	lants shows multiple ep	idermis?		
	a) <i>Croton</i>	b) <i>Allium</i>	c) <i>Nerium</i>	d) <i>Cucurbita</i>	
28.	The growth of root and s	tem in length with the h	nelp of apical meristem is call	ledA Apart from primary	
	growth most dicotyledon	ious plant exhibit an inc	crease in girth calledB		
	Choose the correct comb	ination of A, B and C in	respect to the above paragra	ph	
	a) A-primary growth; B-s	secondary growth	b) A-secondary growth	; B-primary growth	
	c) A-secondary growth; I	B-tertiary growth	d) A-primary growth; E	3-tertiary growth	
29.	Which of the following st	atement is correct?			
	a) Study of the internal structure is called anatomy				
	b) Plants have cells as the basic unit cells, are organised into tissues				
	c) Tissues are organised	into organs			
	d) All of the above		1		
30.	In monocotyledonous ste	em, the vascular bundle	s are		
	a) Conjoint and open		l .		
	130 11 1	TOLLIS EDI	ICATION		
	c) Scattered through out	the ground tissue	JCATION		
	d) Both (b) and (c)	0			
31.	Select the wrong stateme	ents			
	I. Primary and secondary		luring secondary growth		
	II. During secondary grov	-			
	a) I is correct and II is inc		b) II is correct and I is i	ncorrect	
	c) Both are incorrect	,011000	d) Both are correct		
32.	I. Fat		a, zeur are eerreet		
02.	II. Protein				
	III. Sugar				
	IV. Salt				
		e nresent in higher con	centration with the meristem	natic cells?	
	a) Only I	b) I and II	c) Only IV	d) III and IV	
33		•	lant. Miller and Letham isola	•	
33.			wing characters is not associa		
	a) Atactostelic condition		wing characters is not associa	ated with the plant:	
		III Stelli			
	b) Bundle sheath in leaf	r of and acnormous soll:	ic 20		
	c) Chromosomal number		19 DU		
24	d) Medulla absent in the				
34.	The position of protoxyle	an in iear is	b) Ab:-1		
	a) Adaxial	1	b) Abaxial		
	c) Surrounded by metaxy	yıem	d) Lateral		

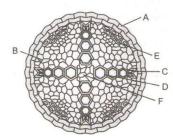
35.	The inner, darker and harder portion of secondary x	ylem that cannot conduct v	vater, in an older dicot
	stem, is called		
	a) Alburnum b) Bast	c) Wood	d) Duramen
36.	The cells arranged in multiple layers between the ep	oidermis and pericycle is ca	lled
	a) Pith b) Stele	c) Medullary rays	d) Cortex
37.	Hardness of seed coats is due to the presence of		
	a) Sclerenchymatous fibres	b) Sclereids	
	c) Bast	d) Stone cells	
38.	Epidermis is derived from		
	a) Cambium b) Primary xylem	c) Secondary xylem	d) Protoderm
39.	The activity of cambium in plants is under the control		•
	a) Many physiological factors		
	b) Many environmental factors		
	c) Only water availability		
	d) Both (a) and (b)		
40.	Bark includes		
	I. phellogen		
	II. phellem		
	III. secondary phloem		
	IV. secondary xylem		
	Select the correct combination		
	a) Only I b) I, II and III	c) Only III	d) All of these
41.	Initiation of lateral roots and vascular cambium duri	ing secondary growth orgai	ns occurs due to activity of
	a) Endodermis b) Pericycle	c) Casparian strip	d) Periderm
42.	I. Sunflower seed		
	II. A wheat leaf		
	III. Pea plant		
	IV. Leaf blade of grass	'ATION	
	Bulliform cells are present in which of the above plan	nts?	
	a) I and II b) II and III	c) III and IV	d) II and IV
43.	I. Vessel, II. Tracheids, III. Companion cells		
	Which of the following is/are living cells?		
	a) I and II b) Only III	c) II and III	d) Only I
44.	Vascular bundles, in which xylem and phloem occur	as separate bundles are kn	own as
	a) Collateral b) Bicollateral	c) Radial	d) Amphivasal
45.	In old trees, the greater part of secondary xylem is de	ark brown due to the	
	a) Deposition of inorganic material	b) Deposition of organic r	naterial
	c) Activity of cambium	d) Activity of secondary x	ylem
46.	Conjuctive tissue is made up of		
	a) Parenchymatous cells, <i>i.e.</i> , in between the xylem	b) Sclerenchymatous cells	s, <i>i.e.</i> , in between the xylem
	and phloem	and phloem	
	c) Collenchymatous cells, <i>i.e.</i> , in between the xylem	d) Merismatic cells, <i>i.e</i> ., in	between the xylem and
	and phloem	phloem	
47.	I. Peripheral vascular bundles are smaller than the co	entrally located vascular bu	ındles
	II DII I I I I		
	II. Phloem parenchyma is absent		
	III. Water parenchyma cavities are present within th	e vascular bundles	
	III. Water parenchyma cavities are present within th		
	III. Water parenchyma cavities are present within th Which of the above characters belong to the monoco	tyledonous stem?	

				Opius Luucution	
	a) Spring season	b) Winter season	c) Autumn season	d) Summer season	
49.			-	nd shoots and produce woody	
	= =	than the primary meristem	is called		
	a) Secondary meriste	m	b) Intercalary merister	m	
	c) Apical meristem		d) Tertiary meristem		
50.	A monocot stem with	secondary growth is			
	a) <i>Lilium</i>	b) <i>Cocos</i>	c) <i>Yucca</i>	d) <i>Asparagus</i>	
51.	Vessels are absent in	this angiosperm.			
	a) <i>Mangifera</i>	b) <i>Magnolia</i>	c) <i>Dillenia</i>	d) <i>Drimys</i>	
52.	Conjoint collateral clo	sed vascular bundle is found	d in		
	a) Monocot stem	b) Monocot root	c) Dicot stem	d) Dicot root	
53.	Palisade parenchyma	is absent in leaves of			
	a) <i>Sorghum</i>	b) Mustard	c) Soyabean	d) Gram	
54.	The tunica-corpus the	eory was proposed by			
	a) Hofmeister	b) Nagelli	c) Strasburger	d) Schmidt	
55.	Alburnum is otherwis	se known as			
	a) Periderm	b) Sapwood	c) Heartwood	d) Bark	
56.	Roots apical meristen	n occupies theA of roots,	while shoot apical meriste	em occupies the distant most	
	region of theB axis				
	Complete the above sentence with the correct combination of A and B				
	a) A-tip; B-stem		b) A-side; B-stem		
	c) A-laterally; B-root		d) A-tip; B-meristamat	ic	
57.	Vascular bundle in the	e laves of dicots are surroun	ded by		
	a) Epidermis	b) Bundle sheath cells	c) Pericycle	d) Both (a) and (c)	
58.	Intercalary meristem		, ,		
	a) Lateral meristem	b) Promeristem	c) Primary meristem	d) Secondary meristem	
59.	Exchange of gases bet	ween the outer atmosphere		stem takes place by (in dicot	
	stem)	FRANCE EDIL	CATION		
	a) Lenticels	b) Stomata	c) Hydathodes	d) Pneumatophores	
60.	A nail is driven into th	ne trunk of a 30 years old tre	e at a point 1 m above the	•	
	height at the rate of 0.5m a years. After three years, nail will be				
	a) 1 m above the soil	•	b) 1.5 m above the soil		
	c) 2 m above the soil		d) 2.5 m above the soil		
61.	Intrafascicular cambi	um is present in between the	•		
	a) Primary xylem and	-	b) Secondary phloem a	and primary xylem	
	c) Primary xylem and		d) Primary xylem and	secondary phloem	
62.		ots, the initiation of lateral ro	, , ,		
	a) Endodermal cells	b) Cortical cells	c) Epidermal cells	d) Pericycle cells	
63.	The roots of angiospe	-		bundles. These are continuous	
	throughout the chang	_			
	a) Epicotyl region	b) Hypocotyl region	c) Upper part of root	d) Lower part of stem	
64.	The stele found in mo	, ,, ,			
	a) Haplostele	b) Atactostele	c) Dictyostele	d) Actinostele	
65.	Largest number of ch	-	, ,	,	
		b) Spongy tissue	c) Transfusion tissue	d) Bundle sheath cells	
66.	Ground tissue include	- -	,	,	
		pidermis and vascular bund	les		
	b) Epidermis and cort	_			
	c) All tissues internal				
	d) All tissues external to endodermis				
	,				

67.	Cambium is present in between		
	a) Phloem and xylem	b) Permanent mature ce	lls
	c) Collenchyma and sclerenchyma	d) Collenchyma and pare	enchyma
68.	All the following statements regarding sieve tube	e elements are true except	
	a) Their end walls have perforated sieve plates w		th lignin at maturity
	b) They possess peripheral cytoplasm as well as		·
	c) Distinct proteinaceous inclusions, the P-protein	_	d throughout the lumen
	d) Long, slender, tube-like structures arranged in		3
69.	'Exarch' is the condition of vascular bundles in w	_	
	a) Protoxylem lies toward the outside and	b) Metaxylem lies toward	d the outside and
	metaxylem lies inward	protoxylem lies inwar	
	c) Metaxylem lies toward the lateral side and	d) Protoxylem lies towar	
	protoxylem lies inward	metaxylem lies inward	
70.	Select the correct statements	J	
	I. Epidermal call have small amount of cytoplasm	and a large vacuole	
	II. Waxy layer cuticle is absent in roots	S	
	III. Root hairs are unicellular, while stem hairs/tr	richomes are multicellular	
	IV. Trichomes are branched/unbranched, soft/st		tion preventive
	V. Guard cells are dum-bell-shaped in dicots and		-
	a) All except I and II	b) All except III	,,,
	c) All except II and IV	d) All except IV	
71.	In dicot root, the vascular cambium are	,	
	a) Completely secondary in origin		
	b) Completely primary in origin		
	c) Secondary as well as primary in origin	/	
	d) Does not exist		
72.	I. Annual rigs are formed as a result of seasonal e	environmental conditions	
	II. Tracheids/vessels elements are larger during	periods when water is abunda	ant
	III. Tracheids/vessels elements have thicker wall	l during periods of water depr	rivation
	IV. Wood formed in the previous years is darker		
	Select the combination of correct statements from	m the options given below	
	a) I and II b) II and IV	c) I, II and III	d) II, III and IV
73.	Select the incorrect statements		
	I. Excessive loss of water is prevented by epiderr	nis	
	II. Stomata develop from epidermal tissue		
	III. Photosynthesis is one of the primary function	_	
	a) I and II b) II and III	c) III and I	d) None of the above
74.	Which element of xylem is the characteristic feat	ure of angiosperms?	
	a) Tracheids b) Phloem	c) Vessels	d) Xylem fibre
75.	As compared to the dicot root, monocotyledon ro		
	a) More xylem bundles	b) More phloem bundles	
	c) Less phloem bundles	d) Less xylem bundles	
76.	The function of a vessel is conduction of		
	a) Food b) Water and minerals	s c) Hormones	d) All of these
77.	Complex tissue includes		
	a) Collenchyma b) Apical meristem	c) Conducting tissue	d) Idioblast
78.	Identify the types of simple tissue given in the di	agram A , B and C	



- a) A-Parenchyma, B-Sclerenchyma, C-Collenchyma
- b) A-Parenchyma, B-Collenchyma, C-Sclerenchyma
- c) A-Sclerenchyma, B-Collenchyma, C-Parenchyma
- d) A-Sclerenchyma, B-Parenchyma, C-Collenchyma
- 79. In the diagram of TS of stele of dicot root, the different parts have been indicated by alphabets, choose the answer in which these alphabets correctly match with the parts they indicate.



- Endodermis, B- Conjuctive tissue, C- Metaxylem, D- Protoxylem, E- Phloem, F- Pith a) 1.
- b) 1. Endodermis, B- Pith, C- Protoxylem, D- Metaxylem, E- Phloem, F- Conjuctive tissue
- c) 1. Pericycle, B- Conjuctive tissue, C- Metaxylem, D- Protoxylem, E- Phloem, F- Pith
- Endodermis, B- Conjuctive tissue, C- Protoxylem, D- Metaxylem E- Phloem, F- Pith d) 1.
- 80. The layer of cells outside the phloem meant for giving rise to the root branches is called
 - a) Cambium
- b) Carpus
- c) Endodermis
- 81. Arrange the following plants in ascending order based on the number of xylem strands in their roots.
 - I. Trapa
 - II. Pisum III. Castanea a) II, IV, III, and I
 - IV. Nicotiana b) III, IV, II, and I
 - c) IV, III, I, and II
- d) I, IV, II and III

- 82. 'Quiescent centre theory' was proposed by
 - a) Nagelli
- b) Schmidt
- c) Hanstein
- d) Clowes

- 83. In an annual ring, the light coloured part is known as
 - a) Early wood
- b) Late wood
- c) Heartwood
- d) Sapwood

- 84. In roots the
 - a) Protoxylem lies towards the periphery
 - b) Metaxylem lies towards the pith (centre)
 - c) Both (a) and (b)
 - d) Endarch condition is found
- 85. Epidermis is often covered with a waxy thick layer called
 - a) Cuticle
- b) Suberin
- c) Supporting cell
- d) All of these

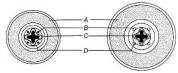
- 86. I. Protection of internal tissue
 - II. Prevention of entry of any harmful organism
 - III. Minimising surface transpiration
 - IV. Protection against excessive heating up

These are the functions of which of the following?

- a) Epidermis
- b) Cortex
- c) Hypodermis
- d) Cuticle
- 87. In a woody dicotyledonous tree, which of the following parts will mainly consist of primary tissues?
 - a) Stem and root

b) All parts

	c) Shoot tips and root tips	d) Flowers, fruits and lea	ves
88.	Old stem on <i>Combretum</i> has		
	a) Inter and intraxylary phloem	b) Inter and extraxylary p	ohloem
	c) Intra and extraxylary phloem	d) All of the above	
89.	Atactostele type of stele is found in	,	
	a) Dicot	b) Monocots	
	c) Both (a) and (b)	d) Only in gymnosperm	
90.	I. Sieve tube conduct organic food longitudinally	7 7 60 1	
	II. Xylem parenchyma cells stores food and help in la	ateral conduction of sap	
	Select the correct option	1	
	a) I is incorrect, but II is correct		
	b) II is incorrect, but I is correct		
	c) I and II are correct		
	d) I and II are incorrect		
91.			
	a) Extrastelar cambium b) Intrastelar cambium	c) Interstelar cambium	d) Both (b) and (c)
92.	Water impermeable, waxy material secreted by end	•	, ()
	a) Lignin b) Suberin	c) Conjuctive tissue	d) Pectin
93.	Tyloses are balloon-like ingrowths in vessels develo		,
	a) Fibres through pits on vessel wall	, ,	
	b) Fibres through the general surface of vessel wall		
	c) Parenchyma through pits on vessel wall		
	d) Parenchyma through the general surface of vesse	l wall	
94.	Select the correct statement from the following		
	a) The cells of the permanent tissue do not generally	v divide	
	b) Permanent tissues having all cells similar in struc		d simple tissues
	c) Permanent tissues having many different types o		-
	d) All of the above	"ATION	
95.	Tissues involved in secondary growth is/are	MITOM	
	I, intercalary stem		
	II. vascular cambium		
	III. cork cambium		
	Select the correct options from below		
	a) I and II b) II and III	c) I and III	d) I, II and III
96.	Which is a characteristic of dicots?		
	a) Roots develop from radicle	b) Secondary growth usu	ally absent
	c) Floral parts in multiple of three	d) Parallel leaf veins	
97.	Identify the plant parts whose transverse section sh	ows a clear and prominent	pith.
	a) Dicot and monocot stems	b) Dicot stem and monoc	ot root
	c) Dicot and monocot roots	d) Dicot stem and dicot r	oot
98.	A tree grows at the rate of 0.5 m per year. What will	be the height of the board	fixed at 1.5 m above the
	base five years ago?		
	a) 4.0 m b) 3.5 m	c) 1.5 m	d) 4.5 m
99.	Mesophylls of monocotyledon leaf are not differenti	ated into	
	a) Palisade tissue	b) Spongy parenchyma	
	c) Bulliform cells	d) Both (a) and (b)	
100	. In the given diagram of secondary growth of dicot ro	bot, identify A to D and cho	ose the correct option



	D			
	a) A-Cortex, B-Primary pl	nloem, C-Cambial ring, D-Pi	rotoxylem	
		hloem, C-Cambial ring, D-Po	•	
	· ·	hloem, C-Primary xylem, D-	=	
		hloem, C-Primary xylem, D-		
101	· ·	cotyledonous root is distin		onous stem by
	a) Absence of secondary	xylem	b) Absence of secondary	phloem
	c) Presence of cortex		d) Position of protoxylen	1
102	. Dendrochronology is			
	a) Secondary growth		b) Apical growth	
	c) Seasonal variation		d) Determination of age of	of tree
103	. Vascular tissues in flower	ing plants develop from		
	a) Phellogen	b) Plerome	c) Periblem	d) Dermatogen
104	. In dicot, leaves, protoxyle	em elements		
	a) Face toward the abaxia	al surface	b) Face toward adaxial si	de
	c) Are surrounded by me	taxylem	d) Are scattered in the m	iddle
105	105. The wood with lower density isA and that of higher density isB			
	Choose the correct combi	nation of options for A and	В	
	a) A-autumn wood; B-spr		b) A-spring wood; B-autu	ımn wood
	c) A-autumn wood; B-bla		d) A-spring wood; B-earl	y wood
106		axylem in the stem lies tow	ards	
	a) The pith and root cent			
	b) The periphery and roo			
		riphery of organ, respectiv	ely	
	d) The pith and periphery		CATION	
107	= =	pied by parenchymatous (th		
	a) Pith	b) Endodermis	c) Pericycle	d) Meristem
108	. The histogens are classifi	ed on the basis of		
	a) Cells they contain		b) Cells they give rise to f	uture tissue
	c) Meristematic activity		d) Cell division	
109	Which tissue gives rise to			
	a) Apical meristem		c) Germinating seed	d) Vascular cambium
110	Generally the silica is dep	osited on the free sides of		
	a) Dorsiventral leaves		b) Monocotyledonous lea	ives
	c) Isobilateral leaves		d) Both (b) and (c)	
111	. Monocot root differ from			
	a) Radial vascular bundle			
	b) Large and well-develop	·		
	c) Polyarch xylem bundle			
110	d) Both (b) and (c)	we the philosop is seems	ad havenulans in last access	
112		ere the phloem is surrounder		d) Dadial
	a) Amphivasal	b) Bicollateral	c) Amphicribal	d) Radial

a) Polycyclic

b) Siphonostele

d) Cladosiphonostele

c) Ectophloic siphonostele 114. Stomatal apparatus consists of

bundles is called

113. In rhizome of *Pteridium*, stele, which is composed of two or more than two concentric rings of vascular

- a) Stomatal aperture
- b) Guard cell
- c) Subsidiary cells
- d) All of these

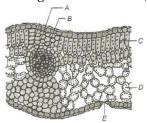
- 115. The apical meristem of the root is present
 - a) Only in adventitious root

b) In all the roots

c) Only in radicals

- d) Only in tap roots
- 116. Among the following attributes of xylem, which are mainly mechanical in function?
 - a) Xylem fibre
- b) Xylem parenchyma
- c) Tracheids
- d) Vessels

- 117. The quiescent centre in root meristem serves as a
 - a) Site for storage of food which is utilized during maturation
 - b) Reservoir of growth hormones
 - c) Reserve for replenishment of damaged cells of the meristem
 - d) Region for absorption of water
- 118. On the basis of their structure and location, tissue system is of in plants
 - a) 2 types
- b) 3 types
- c) 4 types
- d) 5 types
- 119. In the given TS dicot leaf, identify *A* to *E* and choose the correct option



- a) A-Phloem, B-Xylem, C-Palisade mesophyll, D-Spongy mesophyll, E-Stomata
- b) A-Phloem, B-Xylem, C-Palisade mesophyll, D-Spongy mesophyll, E-Stomata
- c) B-Xylem, A-Phloem, C-Palisade mesophyll, D-Spongy mesophyll, E-Stomata
- d) B-Xylem, A-Phloem, C-Palisade mesophyll, D-Spongy mesophyll, E-Hydathodes
- 120. In the previous question

The diagram I stomata belongs to ...A...

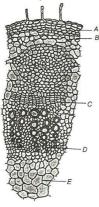
The diagram II stomata belongs to ...B...

a) A-monocots leaf; B-dicots

b) A-dicots leaf; B-monocots

c) A-angiosperm; B-gymnosperm

- d) A-gymnosperm; B-angiosperm
- 121. Identify *A* to *E* in the given diagram and choose the correct option



- a) A-Collenchyma, B-Sclerenchyma, C-Cambium, D-Protoxylem, E-Pith
- b) A-Sclerenchyma, B-Collenchyma, C-Cambium, D-Protoxylem, E-Pith
- c) A-Parenchyma, B-Collenchyma, C-Cambium, D-Protoxylem, E-Pith
- d) A-Collenchyma, B-Parenchyma, C-Cambium, D-Protoxylem, E-Pith
- 122. Lateral roots develop from primordia originated by the division of
 - a) Pericycle cells lying opposite to protoxylem points
 - b) Pericycle cells lying between two protoxylem points
 - c) Endodermal cells lying between two protoxylem points
 - d) Endodermal cells lying opposite to protoxylem points

122 C				
a) Ves	-	s are associated with b) Sperms	c) Sieve elements	d) Guard cells
-		the study of ageing is know	-	u) dual a cells
	e, which deals with atology	b) Gerontology	c) Limnology	d) Palaeontology
	atology rm leptome is used	,	c) Lillinology	u) i alaeontology
	_		a) Endadormic	d) Poriguelo
a) Xyl		b) Phloem	c) Endodermis	d) Pericycle
	=	ting (moving) due to	h) Co con down w owistow	
-	nary meristem		b) Secondary meristem	
	cal meristem		d) Intercalary meristem	
	-	ould be in significant amou		12 147 4
a) Sug		b) Nitrates	c) Phosphates	d) Water
	condary meristem		ו או או	12.77 1
-	al growth	b) Transverse growth	c) Radial growth	d) Vertical growth
=	fibres are made up			
-	renchyma cells wit			
-	renchyma cells wi			
-	enchyma cells with			
-	•	th no obliteration in central		
		tissue outside the vascular o	cambium from the tree trun	ık kills it because
-	ter cannot move up		_	
-		own and root become starv	red	
-	ot become starved			
-	ual rings are not p	roduced	>	
131. Prickle		. 191		
	t have vascular sup			
	epidermal in origin	1		
	p in climbing			
	_	ion of statements from the		
a) I an		b) II and III	c) I and III	d) I, II and III
		ng is well-developed presen		
-	enchyma	b) Collenchyma	c) Stomata	d) Root system
133. In dico	t stem, secondary	growth is due to the activity	y of	
a) Api	cal meristem	b) Lateral meristem	c) Cork	d) Bark
	-	e for extra stelar secondary	growth in dicot stem is	
a) Inte	rfascicular cambiu	ım	b) Intrafascicular cambiu	m
c) Inte	rcalary meristem		d) Phellogen	
135. Caspa	ian thickenings ar	e found in the cells of		
a) Per	icycle of the root		b) Endodermis of the root	.
c) Per	icycle of the stem		d) Endodermis of the sten	n
136. In the	given TS of monoc	ot leaf, identify A to E . Choo	se the correct option	
		- A B C		

- a) A-Abaxial epidermis, B-Xylem, C-Mesophyll, D-Adaxial epidermis, E-Phloem
- c) A-Adaxial epidermis, B-Phloem, C-Mesophyll, D-Abaxial epidermis, E-Xylem
- b) A-Abaxial epidermis, B-Phloem, C-Mesophyll, D-Adaxial epidermis, E-Xylem
- d) A-Adaxial epidermis, B-Xylem, C-Mesophyll, D-Abaxial epidermis, E-Phloem

137. Length of petiole increa	ises due to division of		
a) Apical meristem	b) Lateral meristem	c) Intercalary meristem	d) All of these
138. Phytotron is			
 a) A controlled condition 	on chamber for tissue	b) Leaf culture process	
c) Special culture of pla	ints	d) Root culture process	
139. The tissue which perpe	tuates itself by active cell di	ivision is	
a) Permanent tissue	b) Ground tissue	c) Meristematic tissue	d) Vascular tissue
140. Amphivasal vascular bu	ındle possess		
a) Xylem around phloei	m		
b) Phloem around xyler	m		
c) Phloem on both side	s of xylem		
d) Phloem towards cen	tre and xylem towards peri	phery	
141. Trichomes are epiderm	al hairs of		
a) Primary root	b) Primary stem	c) Primary leaves	d) Secondary root
142. I. Protection of internal	tissues		
II. Protection leaves fro	m microbes		
III. Gaseous exchange			
IV. Reduction in the rat	e of transpiration through ϵ	epidermal cells due to tricho	mes
Which of the function o	f epidermis is/are relevant	from the above given stater	nents?
a) Only II	b) I and II	c) II and III	d) I, II, III and IV
143. Identify A , B and C indi	cated in diagram of root ape	ex given below	
a) A-Vascular bundle, B	3-Epidermis, C-Root apical n	neristem	
	is, C-Root apical meristem		
	rm, C-Root apical meristem		
	is, C-Root apical meristem		
144. In flowering plants, the	-	lements are	
a) Tracheids	b) Vessels	c) Fibres	d) Both (a) and (b)
145. The vertical section of aA and vascular syste covered byC of the Choose the correct com	em. The epidermis, which colleaf.	the lamina shows three mai	
	rial epidermis, C-abaxial	b) A-endodermis, B-adax	xial epidermis, C-abaxial
epidermis	•	epidermis	•
-	axial epidermis, C-adaxial	d) A-mesophyll, B-abaxia	al epidermis, C-adaxial
epidermis	-	epidermis	-
146. I. Epidermis			
II. Mesophyll			
III. Vascular system			
Which of the above com	nponent is made up of parei	nchyma and have chlorphyl	?
a) I and II	b) Only I	c) Only III	d) Only II
147. Which of the following	is not a part of epidermal ti	ssue system?	
a) Companion cells	b) Trichomes	c) Root hairs	d) Guard cells
148. Which of the following:	statements is true?		

a) The collenchyma occurs in layers below the epidermis in monocotyledonous plants			
b) Sclerenchyma cells are usually dead and without	protoplasts		
c) Xylem parenchyma cells are living and thin-walle	d and their cell walls are m	ade up of lignin	
d) The companion cells are specialised sclerenchym	atous cells		
149. The age of tree by counting annual rings is called			
a) Dendrochronology b) Ageing	c) Chronology	d) Countrology	
150. Lignification is associated with			
a) Xylem b) Phloem	c) Parenchyma	d) Chlorenchyma	
151. Conducting tissue for the transport of water and min	nerals from the roots to the	stems and leaves is called	
a) Xylem b) Phloem	c) Parenchyma	d) Collenchyma	
152. Abaxial surface of the leaf generally bears			
a) Less stomata than adaxial epidermis	b) More stomata than ada	axial epidermis	
c) Equal stomata than adaxial epidermis	d) Hairs to absorb the mi	nerals	
153. Open vascular bundles			
a) Have cambium in between the primary and secon	idary xylem		
b) Have cambium in between the primary and secon	idary phloem		
c) Have cambium in between the xylem and phloem	• •		
d) Don't have cambium in between xylem and phloe			
154. The lacunae in vascular bundle of monocot stem is			
a) Amucilage canal	b) A large-sized vessel		
c) Lysigenous water cavity	d) Metaxylem		
155. Complementary cells are associated with	, ,		
a) Lenticels b) Hydathodes	c) Rhytidome	d) Bark	
156. In which of the following, root system is poorly deve		,	
a) Phaene b) <i>Hydrilla</i>	c) Halophyte	d) Xerophyte	
157. Heartwood differs from sapwood in	-) p)	,	
a) Presence of rays and fibres	b) Absence of vessels and	narenchyma	
c) Having dead and non-conducting elements	d) Being susceptible to pe	-	
158. The sclerenchyma of the hypodermis in the <i>Pinus</i> ne		ous and pamogons	
a) Increasing the absorptive surface of the cell	b) Checking transpiration	1	
c) Mechanical support	d) Photosynthesis	•	
159. Which one of the following is not a lateral meristem	•		
a) Intrafascicular cambium	b) Interfascicular cambiu	m	
c) Phellogen	d) Intercalary meristem	111	
160. In dicot stem, vascular bundles are	aj meeredary meristem		
a) Numerous scattered	b) Arranged in a ring		
c) Without cambium	d) Surrounded by bundle	sheath	
161. Which of the following statements are true?	a) sarrounded by bandie	Silcatii	
I.Uneven thickening of cell well is characteristic of so	clerenchyma		
II.Periblem forms the cortex of the stem and the roo	_		
III.Tracheids are the chief water transporting elemen			
IV.Companion cell is devoid of nucleus at maturity.	nts in gymnosperms.		
V.The commercial cork is obtained from <i>Quercus su</i> .	hor		
		d) II III and V	
	c) III and IV	d) II, III and V	
162. Which of the above following are simple tissues?			
I. Parenchyma			
II. Collenchyma			
III. Sclerenchyma	a) I and III	d) I II and III	
a) I and II b) II and III	c) I and III	d) I, II and III	
163. Non-articulated laticifers are found in			

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a) <i>Nerium</i>	b) <i>Papaver</i>	c) <i>Hevea</i>	d) <i>Achras</i>
164. I. Epidermal cells			
II. Stomata			
III. Trichomes			
IV. Root hairs			
These are the attribu	ites of		
a) Epidermal tissue :		b) Ground tissue syste	em
c) Fundamental tissi		d) Vascular tissue syst	
	•	intervals on the upper surfa	
a) Bulliform cells	colouriess cens present at	b) Palisade parenchyn	•
c) Spongy parenchy	ma	d) Accessory cells	iia
166. Velamen is found in	illa	uj Accessory cens	
a) <i>Vanda</i>	b) <i>Rosa</i>	c) <i>Viscum</i>	d) <i>Santalum</i>
•	•	c) viscum	u) Santaium
167. The functions of siev		h) Nucleus of sieve tul	a a galla
a) Cytoplasm of siev		b) Nucleus of sieve tul	
c) Nucleus of compa		d) Cytoplasm of comp	anion cells
168. Which of the following	=	S 77 1 111	D. 6
a) <i>Nerium</i>	b) <i>Mangifera</i>	c) <i>Hydrilla</i>	d) <i>Zea mays</i>
	ich the cells divide in sever		
a) Plate meristem	b) Rib meristem	c) Mass meristem	d) Lateral meristem
170. Cambium activity is	=		
a) Autumn	b) Spring	c) Winter	d) Rain
_		ecific regions of apical merist	_
a) Dermal tissue	b) Ground tissue	c) Vascular tissue	d) All of these
172. Vascular bundle, in v	_	em are present on both sides	of xylem is
a) Collateral	b) Bicollateral	c) Concentric	d) Radial
173. Vascular bundle witl	n cambium is called		
a) Closed	b) Open	c) Exarch	d) Endarch
174. Compound sieve pla	ites are found in	OCHILOIT	
a) <i>Cucurbita</i>	b) <i>Vitis</i>	c) <i>Magnolia</i>	d) <i>Corchorus</i>
175. From evolutionary p	oint of view, tracheids and	sieve cells are more primitiv	ve than tracheae and sieve
tubes respectively. T	'he angiosperms have		
a) Tracheae and siev	⁄e tubes	b) Tracheids, tracheae	e and sieve tubes
c) Tracheae, sieve ce	ells and sieve tubes	d) Tracheids, tracheae	e and sieve cells
176. I. Phloem transports	the food materials usually	from the leaves to other par	ts of the plant
II. Phloem in the ang	iosperm is composed of sie	eve tube elements, companio	n cells, phloem parenchyma
and phloem fibres			
Identify which of the	e following statement is cor	rrect and select the correct o	otion
a) I and II are correc	t	b) I and II are incorred	et
c) I is correct, but II	is incorrect	d) II is correct, but I is	incorrect
_	of dicotyledonous root is o	called	
a) Cortex	b) Epidermis	c) Cambium	d) Periderm
178. Identify A to E in the		•	-
1 mbles of	- 0		
601 A C A A A A A A A A A A A A A A A A A			

				Gpius Educatioi
	a) A-Endodermis, B-Peri	cycle, C-Protoxylem, D-	•	cycle, C-Protoxylem, D-Pith,
	Metaxylem, E-Pith		E-Metaxylem	
	=	cycle, C-Pith, D-Protoxylem	=	C-Pericycle, D-Protoxylem,
170	E-Metaxylem	ant from the following	E-Metaxylem	
1/5	Choose the wrong staten	_	atam	
		develops from apical meris		
		curs at stem apex/root ape		
	•	e produced by primary and	secondary meristem	
100	d) None of the above			
180	I. It is resistant to microc	•		
	II. It comprises dead elem			
	III. It comprises highly light			
	IV. It is the peripheral pa	rt		
	V. It is dark and tough		10	
		erty doesn't belongs to hear		
	a) I and II	b) Only IV	c) Only V	d) III and I
181	. Tracheids			
	-	types of xylem in angiosper	rms	
	b) Are primarily found in			
		ater conduction and suppor	t in many land plants	
	d) First appeared during			
182	-	is formed the during secon	dary growth of the stem	
	II. It is a couple of layer t		>	
	III. It is made up of thin v			
	Select the incorrect state	ments		
	a) I and II	b) II and III	c) I and III	d) None of these
183	. Jute is mainly composed	of		
	a) Xylem	b) Secondary bast fibre	c) Phloem	d) Cortex
184	. Which of the following co	ells are studied during trans	slocation of solutes?	
	a) Sieve tube cells	b) Companion cells	c) Phloem fibre	d) Xylem fibre
185	. Stelar regions are formed	d from		
	a) Periblem	b) Plerome	c) Dermatogen	d) Tunica
186	. Casparian strips are pres	sent in the of the root.		
	a) Epiblema	b) Cortex	c) Pericycle	d) Endodermis
187	. Cork cambium gives rise	to		
	a) Phellogen and second	ary cortex	b) Phellogen, phelloderm	and secondary cortex
	c) Cork and phellogen		d) Cork and secondary co	rtex
188		ingle perforation is present	in	
	a) <i>Cucurbita</i>	b) <i>Prunus</i>	c) <i>Pyrus</i>	d) <i>Vitis</i>
189	. Root caps are absent in		, ,	,
	a) Mesophytes	b) Xerophytes	c) Hydrophytes	d) Lithophytes
190		roplast and regulate the op		
	a) Cuticle cell	b) Stomatal cell	c) Guard cell	d) Subsidiary cell
191	. Bamboo and grasses eloi	-	,	,
	a) Secondary meristem	b) Lateral meristem	c) Apical meristem	d) Intercalary meristem
192		ites become impregnated w		, , , ,
_	a) Cellulose	b) Pectin	c) Suberin	d) Callose
193	-	e thickened corners due to		,
	a) Cellulose	b) Hemicellulose	c) Pectin	d) All of these
10/	Complex tissues are	z, memiconarose	o, 1 00mi	a, 1111 of 01000

a) Made up of more than one kind of cells b) Xylem and phloem c) Both (a) and (b) d) None of the above 195. In a vascular bundle, if xylem vessels develop in a centripetal fashion, the xylem is likely to be b) Centrarch d) Exarch a) Mesarch c) Endarch 196. In monocot roots, which type of vascular bundles are found? b) Radial with exarch xylem a) Collateral, conjoint and closed c) Bicollateral, conjoint and closed d) Radial with endarch xylem 197. All the tissues on the innerside of the endodermis constitutes together to form a) Vascular bundle b) Conjuctive tissue c) Pith d) Stele 198. The cork is impervious to water due to a) Lignin deposition in the cell wall b) Compactness of cell c) Suberin deposition in the cell wall d) All of the above 199. I. Vascular tissue II. Cork cambium III. Xylem and phloem elements IV. Parenchyma and sclerenchyma Choose the correct combination for heterogenous tissue a) I and II b) II and IV c) II and III d) Only III 200. Vascular bundle having phloem at the centre encircled by xylem is known as b) Conjoint collateral d) Amphicribral a) Bicollateral c) Amphivasal 201. In dicotyledonous root, the cortex consists of a) Sclerenchymatous tissue b) Collenchymatous tissue d) Endodermis tissue c) Parenchymatous tissue 202. Which of the following is true? a) Vessels are unicellular and with narrow lumen b) Vessels are multicellular and with wide lumen c) Tracheids are unicellular and with wide lumen d) Tracheids are multicellular and with narrow lumen 203. Choose the correct combination of labelling of a lenticels



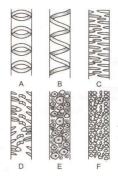
- a) **A-**Pore, **B-** Secondary cortex, **C-**Cork cambium, **D-** Cork, **E-**Complementary cells
- b) A-Pore, B- Cork cambium, C- Cork, D- Secondary cortex, E- complementary cells
- c) A-Pore, B-Cork, Complementary cells D- Cork cambium, E- Secondary cortex,
- d) A-Pore, B- Complementary cells, C- Cork, D- Cork cambium, E- Secondary cortex,
- 204. Meristematic tissue in vascular bundle is
 - a) Phellem

b) Procambium

c) Interfascicular cambium

d) Fascicular cambium

205. The following diagrams show the types of secondary thickening in the xylem vessels. Identify the types labelled from A to F. Choose the correct option from those given.



- a) A-Spiral, B-Annular, C-Reticulate, D-Scalariform, E-Pitted with border, F-Pitted, simple
- b) A-Annular, B-Spiral, C-Scalariform, D-Reticulate, E-Pitted with border, F-Pitted, simple
- c) A-Annular, B-Spiral, C-Scalariform, D-Reticulate, E-Pitted, simple, F-Pitted with border
- d) A-Spiral, B-Annular, C-Scalariform, D-Reticulate, E-Pitted with border, F-Pitted, simple
- 206. P-proteins are associated with
 - a) Sieve tube elements

b) Xylem parenchyma

c) Trichomes

- d) Tracheids and vessels
- 207. A bicollateral vascular bundle has the following arrangement of tissues.
 - a) Outer phloem \rightarrow Outer xylem \rightarrow Middle cambium \rightarrow Inner xylem \rightarrow Inner phloem
 - b) Outer cambium → Outer phloem → Middle xylem → Inner phloem → Inner cambium
 - c) Outer phloem \rightarrow Outer cambium \rightarrow Middle xylem \rightarrow Inner cambium \rightarrow Inner phloem
 - d) Outer xylem \rightarrow Outer cambium \rightarrow Middle phloem \rightarrow Inner cambium \rightarrow Inner xylem
- 208. Permanent or mature cells are formed by
 - a) Cell division in the primary meristem
- b) Cell division in the secondary meristem

c) Both (a) and (b)

d) Specialisation of secondary meristem

- 209. Intercalary meristem results in
 - a) Secondary growth
- b) Primary growth
- c) Apical growth
- d) None of these
- 210. Mark the correct sequence of layers found in root anatomy.
 - a) Epiblema, cortex, endodermis, pericycle
- b) Cortex, epiblema, pericycle, endodermis
- c) Epiblema, cortex, pericycle, endodermis
- d) Cortex, epiblema, endodermis, epidermis
- 211. In monocot stem, which of the following is absent?
 - a) Endodermis
- b) Hypodermis
- c) Cortex
- d) Both (a) and (b)
- 212. Consider the following statements and choose the correct option.
 - I.The thread like cytoplasmic strands, running from one cell to other is known as plasmodesmata.
 - II.Xylem and phloem constitute the vascular bundle of the stem.
 - III.The first formed xylem elements are described as metaxylem.
 - IV.Radial vascular bundles are mainly found in the leaves.
 - a) I is true, but II, III and IV are false
 - b) II is true, but I, III and IV are false
 - c) III is true, but I, II and IV are false
 - d) I and II are true, but III and IV are wrong
- 213. In the leaf, vascular bundles are found in the
 - a) Veins
- b) Palisade tissues
- c) Lower epidermis
- d) Upper epidermis
- 214. The annular and spirally thickened conducting elements generally develop in the protoxylem when the root or stem is
 - a) maturing
- b) Elongating
- c) widening
- d) Differentiating

- 215. Damaged sieve tubes are sealed by deposition of
 - a) Pectin
- b) Callose
- c) Suberin
- d) Lignin
- 216. Arrange the following in the order of their location from periphery to centre in the entire dicotyledonous plant body.
 - I. Fusiform cells II. Trichoblasts III. Collocytes IV. Tyloses

- a) IV , I, II, III,
- b) II, III, I, IV
- c) III, II, I, IV
- d) I, IV, III, II

- 217. Cork tissue arises from
 - a) Periderm
- b) Phellogen
- c) Phelloderm
- d) Phellem
- 218. As secondary growth proceeds in a dicot stem, the thickness of
 - a) Sapwood increases
 - b) Heartwood increases
 - c) Both sapwood and heartwood increase
 - d) Both sapwood and heartwood remains the same
- 219. A mature sieve tube differs from a vessel in
 - a) Lacking a functional nucleus

- b) Absence of lignified walls
- c) Being nearly dead d) Lacking cytoplasm
- 220. Cork cambium of dicot originates from
 - a) Epiblema

b) Pericycle

c) Cambium of vascular bundles

- d) Endodermis
- 221. Parenchymatous cells are usually present in the

I. pericycle

II. pith

III. medullary rays

IV. primary root

V. secondary root

VI. primary stem

VII. secondary stem

Select the correct combinations from the given options

a) All except I and III

b) All except V and VII

c) All except II and IV

- d) All except VI and III
- 222. What differentiates leaf of dicots from monocots?
 - a) Parallel venation
 - b) Differentiation of palisade and spongy parenchyma
 - c) Stomata only on upper side
 - d) Stomata both on upper and lower sides
- 223. In dicotyledonous root
 - a) 3 to 6 xylem and phloem patches are found
 - b) 4 to 8 xylem and phloem patches are found
 - c) 2 to 4 xylem and phloem patches are found
 - d) 5 to 6 xylem and phloem patches are found
- 224. Simple tissues which occurs in layers below the epidermis in dicotyledonous plants are
 - a) Simple parenchyma

b) Complex parenchyma

c) Collenchyma

- d) Simple tissue
- 225. Intercalary meristem is found between the
 - a) Mature tissue

b) Apical root meristem

c) Shoot meristem

- d) Two nodes
- 226. Maximum number of vascular bundles are present in
 - a) Monocot stem
- b) Monocot root
- c) Dicot stem
- d) Dicot root
- 227. Identify A to E in the given TS of dicot stem and choose the correct option



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	a) A-Hypodermis, B-Chlor	enchyma, C-Endodermis	, D-Pericycle, E-Medullary ra	ays
	b) A-Hypodermis, B-Parei	nchyma, C-Endodermis, D	-Pericycle, E-Medullary rays	S
	c) A-Hypodermis, B-Scler	enchyma, C-Endodermis,	D-Pericycle, E-Medullary ra	ys
	d) A-Hypodermis, B-Scler	enchyma, C-Endodermis,	D-Pericycle, B-Parenchyma	-
228.	In dicot root, the cork cam	•		
	a) Cortex	b) Pericycle	c) Epidermis	d) Endodermis
229.	Quiescent centre is a	•	· ·	•
	a) Weak zone	b) Active zone	c) Inactive	d) Strong base
230.	In monocot stem, the hype	odermis is	•	, c
	a) Parenchymatous		b) Sclerenchymatous	
	c) Collenchymatous		d) Meristematic	
231.	Bulliform cells are the mo	dification of	,	
	a) Abaxial epidermis cell		b) Adaxial epidermis cell	
	c) Mesophyll		d) Vascular tissue	
232.	In dicot stem, secondary x	ylem lie towards theA.	and secondary phloem lie	towards theB
	Choose the correct combine	nation of options for A an	d B	
	a) A-pith; B-periphery	•	b) A-periphery; B-pith	
	c) A-periphery; B-laterally	у	d) A-pith; B-laterally	
233.			y on the outer side of the xy	rlem
	a) Open vascular system	-	b) Closed vascular system	n
	c) Conjoint vascular syste	m	d) Radial vascular system	1
234.	Which meristem is respor		-	
	a) Primary meristem		b) Root apical meristem	
	c) Shoot apical meristem	3.11	d) Secondary meristem	
235.	Wood is			
	a) Primary phloem	b) Primary xylem	c) Secondary xylem	d) Secondary phloem
236.	Sclerenchyma mainly pro			
	a) Storage tissue to the pl	ants	CATION	
	b) Mechanical support to	the organs of plants	CHITOIA	
	c) Secretory tissue to the	plants		
	d) Strength to monocot pl	ants, specially their abun	dance in the layers below th	ie epidermis
237.	Bicollateral conjoint vascu	ılar bundles have		
	a) Xylem and phloem, wh	ich are arranged in an alt	ernate manner on different	radii
	b) Xylem and phloem, wh	ich are situated at the sar	ne radius and it has two gro	ups of phloem along the two
	sides of xylem (inside a	and outside)		
	c) Xylem and phloem in sa	ame radius but it has only	one group phloem outside	the xylem
	d) Phloem surrounds the	xylem tissues		
238.	I. Made up of sclerenchym	atous cells		
	II. Generally absent in prin	mary phloem		
	III. Much elongated and po	ointed		
	Given above characters be	elongs to which of the foll	owing?	
	a) Phloem fibre	b) Xylem fibre	c) Companion cells	d) Sieve cells
239.	I. It is made up of elongate	ed, compactly arranged co	ells	
	II. It is usually single layer	ed		
	III. It is parenchymatous			
	IV. Large vacuole is presen	nt		
	Which of the above charac	cters belong to the epider	mis?	
	a) All except I	b) All except III and IV	c) All except II	d) All of these
240.	I. They may be branched of	or unbranched and soft o	rstiff	
	II. They may be secretory	and help in preventing w	ater loss due to transpiratio	n

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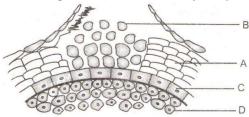
Which of the above characteristics belongs to trichomes

- a) Only I
- b) Only II
- c) I and II
- d) None of these

241. In young stem, the vascular cambium is

- a) Single layered
- b) Bilayered
- c) Trilayered
- d) Does not exist

242. In the diagram of lenticel, identify the parts indicated as A, B, C, D



- a) A-Phellem, B-Complementary cell, C-Phellogen, D-Phelloderm
- b) A-Phellem, B-Complementary cells, C-Phelloderm, D-Periderm
- c) A-Complementary cells, B-Phellogen, C-Phelloderm, D-Periderm
- d) A-Complementary cells, B-Phellem, C-Periderm, D-Phelloderm
- 243. Fascicular, interfascicular and extra-stelar cambium together constitutes
 - a) Ground meristem
- b) Apical meristem
- c) Intercalary meristem
- d) Lateral meristem

244. Secondary phloem remains functional generally

a) For one year

b) For less than one year

c) For many years

- d) As long as plant is alive
- 245. New protective layers formed after the crushing or breaking of cortical and epidermal layers due to increase in the girth of stem by vascular cambium. These new layers collectively called as
 - a) Phellogen
- b) Cork cambium
- c) Periderm
- d) Phelloderm

246. Which of the following tissues consist of living cells?

- a) Vessels
- b) Tracheids
- c) Companion cells
- d) Sclerenchyma

247. In barley stem, vascular bundles are

a) Open and scattered

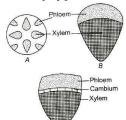
b) Closed and scattered

c) Open and in a ring

- d) Closed and radial
- 248. I. Pith is large and well-developed in monocots
 - II. Monocot root don't undergo any secondary growth

In accordance to the above statements, identify the correct one

- a) I is incorrect, but II is correct
- b) II is incorrect, but I is correct
- c) I and II are incorrect
- d) I and II are correct
- 249. Aerenchyma is helpful in plants by
 - a) Providing buoyancy in hydrophytes
- b) Absorption in stilt roots
- c) Giving mechanical strength to plants
- d) Giving flexibility to plants
- 250. Cells having no power of cell division are formed by
 - a) Primary meristem
- b) Fascicular cambium
- c) Cork cambium
- d) All of these
- 251. Identify type of vascular bundle with respect to A, B and C figure



- a) A-Conjoint closed, B-Conjoint open, C-Radial
- b) A-Radial, B-Conjoint open, C-Conjoint closed
- c) A-Radial, B-Conjoint closed, C-Conjoint open
- d) A-Conjoint open, B-Conjoint closed, C-Radial

- 252. Velamen and spongy tissue is found in
 - a) Breathing roots
- b) Parasitic roots
- c) Tuberous roots
- d) Epiphytic roots

- 253. In previous question, the given diagram is the TS of
 - a) Root and belongs to monocot
 - b) Stem and belongs to monocot
 - c) Root and belongs to dicot
 - d) Stem and belongs to dicot
- 254. I. Youngest secondary phloem is just outside the cambium, while youngest secondary xylem is present inside the cambium
 - II. Oldest secondary phloem is just inside the primary phloem, while oldest secondary xylem is just above pith
 - III. Secondary medullary ray passes through both secondary xylem and secondary phloem Select the incorrect statement from above
 - a) I and II
- b) II and III
- c) III and I
- d) None of these

- 255. Collenchyma is
 - a) Living and contains protoplasm

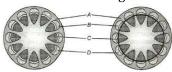
- b) Dead and hollow
- c) Dead and filled with reserve food
- d) Living and contains no reserve food

- 256. The stele is composed of
 - a) Vascular bundle

b) Pith and vascular bundle

c) Cortex and endodermis

- d) Pith and cortex
- 257. Vascular cambium of dicot root originates from the tissue located just below...A... bundles, a portion of pericycle tissue above the ...B... forming a complete continues wavy ring, which later becomes ...C... Choose the correct combination of options for A-C
 - a) A-xylem, B-protoxylem, C-circular
 - b) A-phloem, B-protoxylem, C-circular
 - c) A-phloem, B-metaxylem, C-circular
 - d) A-xylem, B-metaxylem, C-circular
- 258. Plant length is increased by
 - a) Apical meristem
- b) Lateral meristem
- c) Dermatogen
- d) Periblem
- 259. Given below the diagram of secondary growth in dicot stem (diagrammatic). Identify A to D



- a) A-Cortex, B-Secondary xylem, C-Secondary phloem, D-Vascular cambium
- b) A-Cortex, B-Primary phloem, C-Vascular cambium, D-Primary xylem
- c) A-Cortex, B-Primary xylem, C-Vascular cambium, D-Primary phloem
- d) A-Cortex, B-Primary xylem, C-Vascular cambium, D-Primary phloem
- 260. Which one of the following is the correct sequence of tissues present in dicot stem during secondary growth?
 - a) Phellogen, cork, primary cortex, secondary cortex
 - b) Cork, primary cortex, secondary cortex, phellogen
 - c) Primary cortex, Secondary cortex, phellogen, cork
 - d) Secondary cortex, cork, phellogen, primary cortex
- 261. In dicotyledonous stem, the sequence of tissue from outside to inside is
 - a) Phellem \rightarrow Endodermis \rightarrow Pericycle \rightarrow Phloem
 - b) Pericycle → Endodermis → Pericycle → Phloem
 - c) $Xylem \rightarrow Endodermis \rightarrow Pericycle \rightarrow Phloem$
 - d) Stele \rightarrow Endodermis \rightarrow Pericycle \rightarrow Pheloem

			Opius Luucutioi
262. In grasses, certain adaxia cells called	l epidermal cells along the	e veins modify themselves in	nto large empty, colourless
a) Bulliform cells	b) Companion cells	c) Guard cells	d) Subsidiary cells
263. In grasses, the guard cells	are		
a) Kidney-shaped	b) Sphere-shaped	c) Dump-bell-shaped	d) Bean-shaped
264. Heart wood and sapwood	l of dicot plants are respe	ctively, called as	
a) Duraman and alburnu	m	b) Alburnum and duram	an
c) Alburnum and phellog	en	d) Duramen and phellog	en
265. Interxylary as well as intr	axylary phloem is presen	t in	
a) <i>Bignonia</i>	b) <i>Mirabilis</i>	c) <i>Strychnos</i>	d) <i>Achyranthes</i>
266. Identify A, B and C in the	given diagram of shoot ap	oical meritem	
A B C			
a) A-Leaf primordium, B-	Axillary bud, C-Vascular b	oud	
b) A-Leaf primordium, B-	Axillary bud, C-Vascular t	issue	
c) A-Shoot primordium, F	B-Axillary bud, C-Vascular	tissue	
d) A-Shoot primordium, I	3-Apical bud, C-Vascular t	issue	
267. Simple permanent living	tissues which are made u	p of thin-walled similar isod	liametric cells are called
a) Parenchyma tissues	S. A.	b) Collenchyma tissues	
c) Sclerenchyma tissues	Tell.	d) Meristematic tissues	
268. Fusiform initial forms	4		
a) Vascular rays	b) Ray parenchyma	c) Tracheary elements	d) Primary phloem
269. Polyarch condition is four	nd in which of the followi	ng?	
a) Monocotyledonous ste	mTPLUS EDU	b) Monocotyledonous lea	aves
c) Monocotyledonous roc	ots	d) Dicotyledonous stem	
270. Apical meristems are pre	sent at the		
a) Tips of roots		b) Tips of shoots	
c) Lateral sides of roots a	nd shoots	d) Both (a) and (b)	
271. Plant cells that are photos	synthetically active are fo	und in theA layer of leav	ves and areB
Choose the correct combi	nation of A and B from th	e below given options	
a) A-mesophyll, B-parenc	hymatous	b) A-mesophyll, B-collen	chymatous
c) A-mesophyll, B-sclerer	nchymatous	d) A-mesophyll, B-meris	matic
272. Which of the following sta	atement is correct?		
I. Many organs of aquatic	plants floats in water		
II. Large air gaps are pres	ent in the collenchyma tis	ssue of lotus leaf	
a) I is correct, but II is inc	orrect	b) II is correct, but I is in	correct
c) I and II are correct		d) I and II are incorrect	
273. I. Tracheids			
II. Vessels			
III. Fibres			
IV. Parenchyma			
All the above structures a	re the attributes of		
a) Xylem	b) Phloem	c) Meristem	d) Vascular tissue
274. Lamellar collenchyma is s	•	•	
a) <i>Cucurbita</i>	b) <i>Leucas</i>	c) <i>Sambuscus</i>	d) <i>Monstera</i>
275. During secondary growth	new meristematic tissue	•	•

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;	a) Phellem	b) Phelloderm	c) Secondary cortex	d) Phellogen
276.	I. Monocot root			
]	II. Dicot stem			
]	III. Monocot stem and dic	ot root		
]	IV. Dicot stem and dicot r	root		
,	V. Dicot root			
,	Which of the above have	well-developed pith?		
;	a) I and II	b) III and IV	c) IV and V	d) II and III
277.	The cork cambium, cork a	and secondary cortex are c	ollectively called	
;	a) Phellogen	b) Periderm	c) Phellem	d) Phelloderm
278.	Sunken stomata is found	in leaves of		
;	a) <i>Trifolium</i>	b) <i>Lemna</i>	c) <i>Nerium</i>	d) <i>Lilium</i>
	A vascular bundle withou	=		
	a) Protostele	b) Siphonostele	c) Solenostele	d) None of these
	A leaf primordium grows			
;	a) At first by apical meris	tem and later largely by	b) By apical meristem	
	marginal meristems			
	c) By lateral meristem		d) By marginal merister	m
	The vascular cambial ring	g of dicot stem is		
	a) Primary in origin		b) Secondary in origin	
	c) Embryonic in origin		d) Partly primary and p	artly secondary in origin
	Mesophyll is a tissue whi			
	a) Between the upper and		b) Below the lower epic	
	c) In between endoderm	is and pericycle	d) Below the endoderm	is and upper on the pericycle
	I. Roots are unicellular	4		
	II. Trichomes are multice			
	· ·	ment and select the correc		
	a) I and II are correct	TEPLUS EDU	b) I and II are incorrect	
	c) I is correct, but II is inc		d) II is correct, but I is in	
	-	rymatous tissue which pass	ses through the secondary	xylem and phloem radially
	are called			
	a) Pith		b) Stele	
	c) Primary medullary ray		d) Secondary medullary	rays
	Quiescent centre is prese		> 5 1 () 1 ()	12.2.5
	a) Shoot apex	b) Root apex	c) Both (a) and (b)	d) Meristematic tissue
		m ray or axial parenchyma	a cell into the lumen of a v	essel, which partially or
	completely blocks the cav	•		12.6
	a) Periderm	b) Heartwood	c) Sapwood	d) Secondary cortex
	Bark is the non-technical		12.4.6	
	a) A few tissue exterior to			to the vascular cambium
	c) All the tissue interior t		=	r to the vascular cambium
		low, select the monocots h		
	a) Yucca	b) Wheat	c) Aloe	d) Both (a) and (c)
		ones of cortex of dicot stem	n performs the function of	providing mechanical
	strength to young stem?	120 4 11		DD (17)
	a) Hypodermis	b) Cortical layers	c) Endodermis	d) Both (a) and (c)
∠90.°		nns and choose the correct	. compination.	
	Tissue Structura Feature			
	1.Collen- Cell walls	Photosy-		

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Photosy-

nthesis

chyma

with

	high water	in young
	content	stems
2.Parenc-	Suberised	Storage
hyma	cell walls	of food
3.Scleren-	Lignified	Mechani
chyma	cell walls	cal
		strength
4.Digestive	Dense	Breaking
glands	cytoplasm	the
		substrat
		e
		without
		water

hyma	cell walls	of food
3.Scleren-	Lignified	Mechani
chyma	cell walls	cal
		strength
4.Digestive	Dense	Breaking
glands	cytoplasm	the
		substrat
		e
		without
		water
a) I and II	b) II and III

c) I and IV

d) I and III

291. The difference in phloem of gymnosperms and angiosperms is due to

a) Parenchyma

b) Sieve cell

c) Companion cell

d) Fibers

292. The waxy material deposited in the Casparian strip of the endodermis is

a) Pectin

b) Suberin

c) Cellulose

d) Lignin

293. What is/are true about heartwood?

I.It does not help in water conduction.

II.It is also called alburnum.

III.It is dark in colour but very soft.

IV.It has tracheary elements, which are filled with tannin, resin, etc.

a) II, III and IV

b) I and IV

c) II and IV

d) I, II and III

294. Vascular cambium of stem is

a) Partly primary and partly secondary meristem

b) Primary meristem

c) Secondary meristem

d) Intercalary meristem

295. Periderm is made up of

I. cork cambium

II. cork

III. secondary cortex

Select the correct combination of options

a) I and II

b) I and III

c) II and III

d) I, II and III

296. Casparian strip is found in

a) Epidermis

b) Pericycle

c) Endodermis

d) Endothecium

297. I. Peripheral region of the secondary xylem in dicot stem in lighter in colour and known as heart wood

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II. It is involved in water and mineral conduction

Select the correct option from below

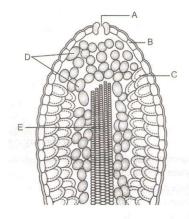
a) I is correct, but II is incorrect

b) I is incorrect, but II is correct

c) I and II are correct

d) I and II are incorrect

298. Choose the correct combination of labeling of Hydathode.



a) A-Guard cells

B-Epithem

C-Mesophyll

D-Epidermis

E-Vasculature

b) A- Guard cells

B- Epidermis

C- Mesophyll

D- Epithem

E-Vasculature

c) A-Water pore

B-Epidermis

C-Mesophyll

D-Epithem

E-Vasculature

d) A-Ostiole

B-Epidermis

C-Mesophyll

D-Epithem

E-Vasculature

299. Fewer xylary elements that have narrow vessel are found in

a) Autumn wood

b) Late wood

c) (a) or (b)

d) Both (a) and (b)

300. The cells without nuclei are present in

a) Vascular cambium

cici di c pi

b) Root hair

c) Companion cell

d) Members of sieve tube

301. Regulation of flow of fluid both inwardly as well as outwardly is performed by the

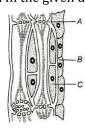
a) Pericycle

b) Endodermis

c) Xylem

d) Phloem

302. In the given diagram of phloem tissue, identify A, B and C



- a) A-Sieve tube cells, B-Xylem parenchyma, C-Companion cell
- b) A-Sieve tube cells, B-Phloem parenchyma, C-Companion cell
- c) A-Sieve pore, B-Xylem parenchyma, C- Companion cell
- d) A-Sieve pore, B-Phloem parenchyma, C-Companion cell
- 303. Which type of vascular bundles are found in monocot stem?

a) Collateral, open and endarch

b) Radial, open and diarch

c) Radial, open and mesarch

d) Collateral, closed and endarch

304. Which of the following is the region of cell division?

a) Root cap

b) Meristematic region

c) Root hair zone

d) None of these

305. Vascular cambium in roots takes its origin from

a) Pericycle

b) Conjunctive parenchyma

		opias Laucation
c) Both (a) and (b)	d) None of the above	
306. Meristamatic tissue helps in the		
a) Absorption of water	b) Growth of plant	
c) Absorption of minerals	d) Transpiration	
307. The phloem of angiosperms differs from that of othe		
a) Vessels b) Companion cells	c) Tylosoides	d) Albuminous cells
308. Growth rings are absent or not sharply demarcated i	n the trees of	
a) Temperate deciduous	b) Tropical evergreen	
c) Temperate evergreen	d) Tropical deciduous	
309. Subsidiary cells are the specialised cell in the		
a) Vicinity of guard cell	b) Vicinity of stomatal cel	l
c) Absence of stomatal cell	d) Absence of guard cell	
310. Axillary bud and terminal bud are derived from the α	activity of	
a) Lateral meristem	b) Intercalary meristem	
c) Apical meristem	d) Parenchyma	
311. Cortex consists of three sub-zones in dicot stem, they	y are	
I. hypodermis II. cortical layer		
III. pericycle IV. endodermis V. epidermis		
a) All except I and II	b) All except II and III	
c) All except IV and V	d) All except III and V	
312. Vessels differ from tracheids	•	
a) In being living		
b) In being derived from a single cell		
c) In having vertical row of cells with crosswalls diss	solved	
d) Because they conduct water		
313. Which of the following cells is an epidermal cell cont	aining chloroplast?	
a) Hydathode b) Stomata	c) Guard cell	d) None of these
314. Elongation of epidermal cells which helps in the abso	orption of water and miner	-
a) Trichomes b) Root hairs	c) Emergences	d) All of these
315. Old dicot roots differ from dicot stem in	, ,	•
a) Absence of cortex	b) Absence of primary ph	loem
c) Absence of vascular bundles	d) Presence of xylem	
316. This is a specialised tissue found in the mesophyll of		
a) Spongy tissue b) Palisade tissue	c) Conjunctive tissue	d) Transfusion tissue
317. Choose the correct statement	, ,	,
a) A group of cell having common origin generally pe	erform common function	
b) All of the cells in a plant body are capable of divid		
c) Permanent tissues have all cells same in function	_	
d) None of the above		
318. Sclerenchyma fibres are		
a) Thick-walled b) Elongated	c) Pointed cells	d) All of these
319. Pericycle is present	0) 1 01110001 00110	w) 1 0.1 0.1.0 00
I. Just above the phloem		
II. on the innerside of endodermis		
Select the correct option		
a) I is correct, but II is incorrect		
b) II is correct, but I is incorrect		
c) I and II are correct		
d) I and II are incorrect		
320. Bicollateral vascular bundles are found in the memb	are of this family	
520. Diconateral vascular bullules are lound in the memb	ers or ans failing	

á	a) Malvac	eae	b) Fabaceae	c) Caesalpiniaceae	d) Cucurbitaceae
321.	Γhe chief	function	of sieve tube element is to		
a	a) Conduc	ct minera	ls		
b) Help the plant in forming wood					
		_	r from roots to leaves		
	-		organic material from source to	sink	
	=		ally both spring and autumn wo		ngs known as
	a) Heartw		b) Latewood	c) Sapwood	d) Annual ring
	•		d in water absorption due to	cj sapwood	a) minuai mg
	_	ce of epic	_	b) Presence of endoder	mic
	-	ce of epic		d) Presence of root hair	
	-			-	
		s covereu	with cuticle, bearing trichomes		
	a) Root		b) Dicot stem	c) Vascular bundle	d) Monocot stem
	_	-	a or bundle sheath is made up o		11
	•	hymatou		b) Sclerenchymatous ce	ell
		nchymato		d) All of these	
			ving is not a characteristic featu		
	-	_	tophytic generation	b) Filamentous rhizoids	S
(c) Amphi	bious hab	oitat	d) Vascular tissues	
327. V	Vascular l	bundles ii	n monocotyledons are considere	ed closed because	
á	a) Xylem	is surrou	nded all around by phloem	b) There are no vessels	with perforations
(c) A bund	lle sheath	surrounds each bundle	d) There is no secondar	ry growth
328. I	Primary f	unction o	f epidermis is	>	
a	a) Photos	ynthesis	- 1	b) Protection	
(c) Conduc	ation of w	rator and colutes	d) Mechanical support	
,	o domadi	ction of w	ater and solutes	uj Mechanicai support	
	-				ermis of the leaves of X, Y and
329.	Γhe numb	er of sto	mata and epidermal cells in 1 m	m ² leaf area of lower epide	
329.	Γhe numb Z plants a	oer of stor re given l	mata and epidermal cells in 1 m pelow. Arrange the plants in dec	m ² leaf area of lower epide	
329.	Γhe numb Z plants a	er of sto	mata and epidermal cells in 1 m	m ² leaf area of lower epide	
329.	The numb Z plants a Plan N t	oer of stor re given l Jumber	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of	m ² leaf area of lower epide	
329.	The numb Z plants a Plan N t S	oer of stor re given l Number of	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150	m ² leaf area of lower epide	
329.	The numb Z plants a Plan N t S X Y	re given l Number of Stomata 30 60	mata and epidermal cells in 1 m below. Arrange the plants in dec Number of Epidermal Cell 150 240	m ² leaf area of lower epide	
329.7	The numb Z plants a Plan N t S X Y Z	per of stor re given l Number of Stomata 30	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400	m ² leaf area of lower epide creasing order of their ston	natal index.
329. 7	The numb Z plants a Plan N t S X Y Z a) X, Y, Z	per of stor re given b Number of Stomata 30 60 90	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X	natal index. d) Y, X, Z
329. 7 2 - - 330. I	The numb Z plants a Plan N t S X Y Z A) X, Y, Z	re given l Number of Stomata 30 60 90	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X	natal index. d) Y, X, Z
329. 7 - - - 330. I	Fhe number of the plants a Plant of the State of the Plants a Plan	ner of store re given la Number of Stomata 30 60 90 trees, the re through	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X couter atmosphere and the	d) Y, X, Z e internal tissue of the stem
329. 7 2 2 330. I	The numb Z plants a Plan N t S X Y Z A) X, Y, Z In woody cakes place a) Aerence	ner of store re given la Number of Stomata 30 60 90 trees, the see through	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X	natal index. d) Y, X, Z
329. 7 2 330. I 4 331. V	The numb Z plants a Plan N t S X Y Z A) X, Y, Z (In woody takes place A) Aerence Wascular s	ner of store re given la Number of Stomata 30 60 90 trees, the re through	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X couter atmosphere and the	d) Y, X, Z e internal tissue of the stem
329. 7 2 330. I t 331. V	The numb Z plants a Plan N t S X Y Z A) X, Y, Z An woody takes place A) Aerence Vascular s (I. xylem	re given la Number of Stomata 30 60 90 trees, the ce through thyma	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X couter atmosphere and the	d) Y, X, Z e internal tissue of the stem
329. 7 2 330. I t 331. V	The numb Z plants a Plan N t S X Y Z A) X, Y, Z (In woody takes place A) Aerence Wascular s	re given la Number of Stomata 30 60 90 trees, the ce through thyma	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X couter atmosphere and the	d) Y, X, Z e internal tissue of the stem
329. 7 2 330. I t 331. V	The numb Z plants a Plan N t S X Y Z a) X, Y, Z In woody takes place a) Aerence Vascular s L. xylem II. phloem	re given la Number of Stomata 30 60 90 trees, the ce through thyma	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the b) Stomata onsists of	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X couter atmosphere and the	d) Y, X, Z e internal tissue of the stem
329. 7 2 330. I 4 331. V	The numb Z plants a Plan N t S X Y Z A) X, Y, Z (n woody takes place A) Aerence Vascular s (I. xylem II. phloem III. ground	re given la Number of Stomata 30 60 90 trees, the ce through chyma system co	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the h b) Stomata onsists of	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X couter atmosphere and the	d) Y, X, Z e internal tissue of the stem
329. 7 2 330. I t 331. V	The numb Z plants a Plan N t S X Y Z A) X, Y, Z An woody cakes place A) Aerence Vascular s L. xylem II. phloem III. ground IV. epider	re given la Number of Stomata 30 60 90 trees, the ce through shyma system count dispersion and meriste small meri	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the h b) Stomata onsists of	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X couter atmosphere and the c) Pneumatophores	d) Y, X, Z e internal tissue of the stem
329. 7 2 330. I 4 331. V I I	The numb Z plants a Plan N t S X Y Z A) X, Y, Z An woody cakes place A) Aerence Vascular s L. xylem II. phloem III. ground IV. epider	re given la Number of Stomata 30 60 90 trees, the ce through shyma system con different correct correc	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the b) Stomata possists of	m ² leaf area of lower epide creasing order of their ston c) Z, Y, X couter atmosphere and the c) Pneumatophores	d) Y, X, Z e internal tissue of the stem
329. 7 2 330. I 4 331. V I I I	The numb Z plants a Plan N t S X Y Z a) X, Y, Z (n woody takes place a) Aerence Vascular s L. xylem II. phloem III. ground IV. epider Select the a) I and II	re given la Number of Stomata 30 60 90 trees, the ce through thyma system conditions and meriste remail meriste correct constructions.	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the h b) Stomata possists of m stem combination from the given opti	c) Z, Y, X couter atmosphere and the c) Pneumatophores ons c) I, II and IV	d) Y, X, Z e internal tissue of the stem d) Lenticels
329. 7 2 330. I 4 331. V I I I I S 332. I	The number of th	re given la Number of Stomata 30 60 90 trees, the ce through thyma system conditions and meriste remail meriste correct constructions.	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the b) Stomata onsists of m stem combination from the given opti b) I, II and III roots, cambium develops in between the	c) Z, Y, X couter atmosphere and the c) Pneumatophores ons c) I, II and IV	d) Y, X, Z e internal tissue of the stem d) Lenticels d) I, III and IV
329. 7 2 330. I 4 331. V I I I I I I I I I I I I I I I I I I I	The number of th	trees, the ce through thyma system con difference correct con and cortes are given by the cortes and cortes are given by the cortes are gi	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the b) Stomata onsists of m stem combination from the given opti b) I, II and III roots, cambium develops in between	c) Z, Y, X couter atmosphere and the c) Pneumatophores ons c) I, II and IV ween b) Phloem and merister	d) Y, X, Z e internal tissue of the stem d) Lenticels d) I, III and IV
329. 7 2 330. I 4 331. V I I I I I I I I I I I I I I I I I I I	The number of the plants at th	trees, the ce through thyma system conditions and corted and phlooder it is a corted a	mata and epidermal cells in 1 m below. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the h b) Stomata ensists of m stem combination from the given opti b) I, II and III roots, cambium develops in between	c) Z, Y, X couter atmosphere and the c) Pneumatophores ons c) I, II and IV ween b) Phloem and merister d) Two xylem strands	d) Y, X, Z e internal tissue of the stem d) Lenticels d) I, III and IV
329. 7 2 330. I 331. V I I I I I I I I I I I I I I I I I I I	The number of th	trees, the ce through thyma system con dimeriste correct con and phloeyledonou	mata and epidermal cells in 1 m pelow. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the b) Stomata onsists of m stem combination from the given opti b) I, II and III roots, cambium develops in between except services are stem, the sequence of tissues for the sex the sequence of tissues for the sequence of the s	c) Z, Y, X couter atmosphere and the c) Pneumatophores ons c) I, II and IV ween b) Phloem and merister d) Two xylem strands from the outside to the insi	d) Y, X, Z e internal tissue of the stem d) Lenticels d) I, III and IV
329. 7 2 330. I 331. V I I I I I I I I I I I I I I I I I I I	The number of th	trees, the ce through thyma system con and correct con and phloe a	mata and epidermal cells in 1 m below. Arrange the plants in dec Number of Epidermal Cell 150 240 400 b) Y, Z, X e exchange of gases between the h b) Stomata ensists of m stem combination from the given opti b) I, II and III roots, cambium develops in between	c) Z, Y, X couter atmosphere and the c) Pneumatophores ons c) I, II and IV ween b) Phloem and merister d) Two xylem strands	d) Y, X, Z e internal tissue of the stem d) Lenticels d) I, III and IV m de is clodermis-pericycle

a) Undivided cells	b) Cells in continuous sta	ate of cell divisions
c) Dead cells	d) Cells which divide rarely	
335. For a critical study of secondary growth in plants, w	hich one of the following p	airs is suitable?
a) Sugarcane and sunflower	b) Teak and pine	
c) Deodar and fern	d) Wheat and maiden ha	ir fern
336. Cuticle is secreted from		
a) Epidermis b) Endodermis	c) Both (a) and (b)	d) Hypodermis
337. I. Parenchyma tissue II. Collenchyma tissue		
III. Sclerenchyma tissue		
Which of the above tissues are found in the ground t	issue system?	
a) I and II b) II and III	c) I and III	d) I, II and III
338. In the sieve elements, which one of the following is t	the most likely function of	P-proteins?
a) Deposition of callose on sieve plates	b) Providing energy for a	active translocation
c) Autolytic enzymes	d) Sealing mechanism on	ı wounding
339. Example of secondary meristem is		
a) Fascicular vascular cambium		
b) Interfascicular cambium		
c) Cork cambium		
d) All of the above		
340. Mesophyii is well differentiated into palisade and sp	ongy tissue in	
a) Dicot leaves b) Monocot leaves	c) Xerophytic stem	d) Hydrophytic stem
341. I. Unicellular hair		
II. Endodermis with passage cells	5	
III. Pith small and inconspicuous		
IV. Radial vascular bundle		
V. 2-4 xylem and phloem		
VI. Cambium ring develops between xylem and phlo	em	
The above description refers to which of the following		
a) Monocot root b) Dicot root	c) Monocot stem	d) Dicot stem
342. Vessels are found in	,	,
a) All angiosperms and some gymnosperms		
b) Most of the angiosperms and few gymnosperms		
c) All angiosperms, all gymnosperms and some pter	idophytes	
d) All pteridophytes	T y	
343. The outer walls of guard cells (away from stomatal p	oore) areA While the i	nner walls (towards the
stomatal pore) areB	,	
Choose the correct combination of A and B		
a) A-thick, B-thin	b) A-thin, B-thick	
c) A-thin, B-also thin	d) A-thick, B-also thick	
344. Intercellular spaces are found inA region. Interce	-	ıB region. Choose the
correct option for A and B	on and a parent in	
a) A-cortex, B-endodermis	b) A-endodermis, B-corte	ex
c) A-endodermis, B-pericycle	d) A-cortex, B-pericycle	
345. Quiescent centre is found in plants at	aj ir corteil, 2 perioj ele	
a) Root tip b) Cambium	c) Shoot tip	d) Tip
346. Large number of xylary elements having vessels with	•	, .
a) Spring wood b) Autumn wood	c) Early wood	d) (a) or (c)
347. I. Long tube-like structure, arranged longitudinally a	•	
II. End wall perforated in a sieve like manner to form		mon cond
Given above two character belong to which attribute	=	
arren above two character belong to which attribute	P	

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a) Sieve tube elements b) Companion cells	c) Phloem parenchyma	d) Tracheid
348. Xylem tissue is composed of		
a) Four same kinds of elements	b) Three same kinds of el	lements
c) Four different kinds of elements	d) Three different kinds (of elements
349. Apical meristem and intercalary meristem are called	ed primary meristem becaus	se?
a) They appear early in plant and contributes to th	e formation of primary plan	t body
b) They make secondary tissue		
c) They make the whole plant body		
d) All of the above		
350. In the given diagram of lenticel, label A, B, C in the	given option	
A B		
a) A-Epidermis, B-Cork cambium, C-Secondary cor	tex	
b) A-Stomata, B-Cork, Cambium, C-Secondary corte	ex	
c) A-Stomata, B-Cork cambium, C-Endodermis		
d) A-Epidermis, B-Cork cambium, C-Endodermis		
351. I. Cells are living and thin-walled and their cell wal	ls are made up of cellulose	
II. They store food material		
III. The radial conduction of water in plants takes p	lace by the help of these tiss	sues
Which of the above feature belongs to the xylem pa	_	
a) I and II b) II and III	c) III and I	d) I, II and III
352. The surface area of leaves in monocotyledon plant	can be regulated by the help	oof
a) Mesophyll cells	CATION	
b) Parenchymatous cell	CATION	
c) Bulliform cells		
d) Guard cell	C	
353. Desert grasses often roll their leaves due to presen		1) NI C.1
a) Oily surface b) Bulliform cells	c) Spines	d) None of these
354. I. Long cyclindrical tube like structure made up of r	nany cells called vessel men	nbers, lignified cell wall and
large central cavity		
II. Devoid of protoplasm		
Above characters belong to which of the following		d) Ciovo tubo
a) Tracheidsb) Xylem vessel355. Aerating pores are present at places on the cork ca	c) Companion cell	d) Sieve tube
a) Pneumatophores	b) Hydathodes	
c) Lenticels	d) Stomata	
356. The age of tree can't be determined by annual rings	•	
a) Temperate evergreen	b) Temperate deciduous	
c) Xerophyte condition	d) Tropical forest	
357. Meristematic cells contain more of	a) rropromisoroso	
a) Fats b) Protein	c) Sugar	d) Salts
358. Tyloses thickenings are seen in	.)	,
a) Collenchyma	b) Phloem cells	
c) Ray parenchyma only	d) Ray parenchyma and x	kylem cells
359. Vascular tissue in higher plants develop from which		-
= = = ·	ii oi tiic ioilowing.	

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- 360. Interfascicular cambium is formed by the joining of
 - a) Medullary rays to xylem cambium
 - b) Medullary rays to intrafascicular cambium
 - c) Medullary rays to lateral fascicular cambium
 - d) Endodermis to intrafascicular cambium
- 361. I. Primary tissues of plants add length to the roots and shoots
 - II. Secondary tissue of plants adds diameter to the roots and shoots
 - III. Cells of permanent tissue are specialised both structurally and functionally

Which of the above statement is/are true?

- a) All except I
- b) All except II
- c) All except III
- d) I, II and III

- 362. The size of vascular bundles on the leaflet depends upon the
 - I. leaf margin II. leaf petiole
 - III. leaf size IV. leaf veination

Select the correct combination of options given below

- a) I and II
- b) II and III
- c) III and IV
- d) I and IV

- 363. Interfascicular cambium is a
 - a) Primary meristematic tissue

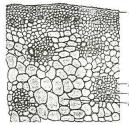
b) Primordial meristem

c) Type of Protoderm

d) Secondary Meristematic tissue

- 364. Duramen is present in
 - a) Inner region of secondary wood

- b) Part of sapwood
- c) Outer region of secondary wood
- d) Region of pericycle
- 365. Diffused porous woods are characteristic of plants growing in
 - a) Temperate climate
- b) Tropics
- c) Alpine region
- d) Cold winter regions
- 366. Identify *A* to *D* in the given diagram and choose the correct option



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- a) A-Hypodermis, B-Xylem, C-Phloem, D-Ground tissue
- b) A-Hypodermis, B-Phloem, C-Xylem, D-Ground tissue
- c) A-Endodermis, B-Phloem, C-Xylem, D-Ground tissue
- d) A-Endodermis, B-Xylem, C-Phloem, D-Ground tissue
- 367. Periderm includes
 - I. Phellem
 - II. Phellogen
 - III. Phelloderm

Select the correct option

- a) I and II
- b) II and III
- c) III and I
- d) I, II and III

- 368. Bulliform cells found in
 - a) Seeds of sunflower
- b) Leaf of wheat
- c) Pod of pea
- d) Tuber of potato
- 369. Two cross-sections of stem and root appear simple, when viewed by naked eye. But under microscope, they can be differentiated by
 - a) Exarch condition of root and stem
 - b) Endarch condition of stem and root
 - c) Endarch condition of root and exarch condition of stem
 - d) Endarch condition of stem and exarch condition of root
- 370. The beneficial use of epidermal layer is

a) Bast fibre	b) Mesocarp	c) Cotton fibre	d) Jute
371. Axillary bud origina	ates from		
a) Meristem		b) Shoot apical meristem	1
c) Root apical meri	stem	d) Secondary meristem	
372. Palisade parenchyr	na and spongy parenchyma are f	ound in	
a) Epidermis of lea	ves	b) Vascular system of lea	ives
c) Mesophyll of lea	ves	d) Endodermis of leaves	
373. The length of differ	ent internodes in a culm of sugar	cane is variable because o	f
a) Shoot apical mer	ristem		
b) Position of axilla	ry buds		
c) Size of leaf lamir	na at the node below each interno	ode	
d) Intercalary meri	stem		
374. Which of the follow	ring cell do not respire?		
a) Epidermal cell	b) Cork cell	c) RBC	d) Sieve tube cell
375. Outer most layer of	f primary plant body is		
a) Endodermis	b) Epidermis	c) Mesodermis	d) Pericycle
376. Viral infection is us	ually absent in		
a) Phloem cells	b) Xylem cells	c) Pith cells	d) Apical meristem
377. The most abundant	t tissues in plants are		
a) Meristematic tis	sues	b) Parenchyma tissues	
c) Collenchyma tiss	sues	d) Sclerenchyma tissues	
378. In which of the follo	owing organs, growth is sub-apic	al?	
a) Root	b) Shoot	c) Petiole	d) Pedicel
379. Which of the follow	ving characters belong to sclerence	chyma?	
I. Consists of long n	arrow cells with thick lignified co	ell walls	
II. Having few or nu	ımerous pits		
III. They are usually	y dead and without protoplasms		
a) I and II	b) II and III	c) I and III	d) I, II and III
380. Amphicribal vascul	ar bundle is vascular bundle in w	hich the	
a) Xylem is surrour	nded by phloem		
b) Phloem is surrou	ınded by xylem		
c) Phloem is surrou	anded by xylem laterally		
d) Xylem is surrou	nded by phloem laterally		
381. TheA cells are s	specialised parenchymatous cells	, which are closely associa	ted with sieve tube
elements. The sieve	e tube elements andB cell are	connected by pit fields pro	esents between their
commonC wall	S.		
Choose the correct	combination of A, B and C from t	he options given below	
a) A-companion, B	-companion, C-longitudinal		
b) A-vessels, B-cor	npanion, C–longitudinal		
c) A–tracheid, B–co	ompanion, C–lateral		
d) A-companion, B	-companion, C-lateral		
382. Exarch and polyard	h xylem strands are found in		
a) Monocot stem	b) Dicot stem	c) Monocot root	d) Dicot root
383. The chief water cor	nducting elements of xylem in gyr	nnosperms are	
a) Vessels	b) Fibres	c) Transfusion tissue	d) Tracheids
384. Choose the incorre	ct statement		
a) Medullary rays o and cortex	connects the pith with pericycle	b) Medullary rays make conducting cells of bo	intimate contact with the
	nelp in radial conduction	d) None of the above	Po o and ny tom
	e like cell with thick and lignified		

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	aj mi except i	oj mi except ii	cj mi except iii	uj mi except iv
	a) All except I	b) All except II	c) All except III	d) All except IV
		natal movement for transpirat		e
		in and inner wall is highly thic	ckened	
	II. They are chlorophy			
•	I. They are modified g			
397.	•	correct about guard cells?	<i>y</i>	, (1) 1 (1)
	a) Fibres	b) Sclereids	c) Either (a) or (b)	d) Both (a) and (b)
396.		on in form, structure, origin a	=	
	c) Companion cell		d) Members of sieve tu	be
	a) Vascular cambium	The second secon	b) Root hair	
395.	. The cells without nuc	• • •		
	=	is and external to primary ph		
	=	is and external to primary xyl		
	-	is and external to primary ph		
		is and inner to primary cortex		
394.	•	ng secondary growth, the corl		, ·
	a) I and II	b) II and III	c) III and IV	d) I, II and III
	Select the correct opti	-		
	I. Jute II. Flax III.		,	
393.		which of the following plant is		
	c) Both (b) and (d)		d) Isobilateral leaves	
	a) Dicotyledonous lea	ves PLUS ELJIUM	b) Monocotyledonous l	leaves
392.	. Kranz anatomy is fou		CATION	
	c) Phloem parenchym		d) Phloem fibre	
	a) Sieve tube element		b) Companion cell	
		characters belong to which a	ttribute of phloem?	
	III. Stores food materi	The state of the s		
371,	II. Cell wall composed		men nave dense cytopiasi	in and nucleus
391		ed, tapering cylindrical cells w		, , ,
370	a) Mesophytes	b) Epiphytes	c) Hydrophytes	d) Xerophytes
390	. Velamen tissue is four		a) Endereate condition	
	c) Presence of P-prote		d) Enucleate condition	15
307	a) Thick secondary w		b) Pores on lateral wall	le
380		feature of vessel elements and		u) i neumatophores
500.	a) Leaves	b) Root	c) Stem	d) Pneumatophores
388	. Cuticle is absent in wl		c) concinenyina	u) Meristelli
	a) Sclerenchyma	tions like photosynthesis, sto b) Parenchyma	c) Collenchyma	d) Meristem
		e closely packed or have small		
		thin and made up of cellulose		
		ametric (they may be spherica		
387.		ant tissue being represented b	-	iven below
205	c) A-metaphloem; B-		d) A-protophloem; B-r	-
	a) A–protoxylem; B–r	-	b) A-protophloem; B-s	
	Choose the correct co		12.4	
386.	-	ary phloem is referred asA.	The later formed prima	ry phloem is referred asB
	a) Tracheids	b) Xylem parenchyma	c) Companion cells	d) Sieve tube element
	The above mentioned	characters belong to which o	f the following plant struc	cture?
		f cell walls have thickening wh	nich vary in form	
	II. These are dead and	l without the protoplasm		

		opius zaacatis.	
	398. Fibres associated with phloem arefibres.	2) Conference da Broad	
	a) Hard b) Wood 399. Consider the following statements.	c) Surface d) Bast	
	I. In a dicot root, the vascular bundles are collateral	and andarch	
II. The innermost layer of cortex in a dicot root is endodermis.			
III . In a dicot root, the phloem masses are separated from the xylem by parenchymatous cells that			
	known as the conjunctive tissue.	a from the Aylem by parenenymatous cens that are	
	a) I is true, but II and III are false	b) II is true, but I and III are false	
	c) I is false, but II and III are true	d) III is false, but I and III are true	
	400. First formed primary xylem elements are calledA		
	B		
	A and B in the above statement refers to		
	a) A-metaxylem; B-protoxylem	b) A–protoxylem; B–metaxylem	
	c) A– protophloem; B–metaphloem	d) A–metaphloem; B–protophloem	
	401. Periderm includes		
	a) Phellem, phelloderm, plerome	b) Phellem, phellogen, dermatogen	
	c) Phellem, phellogen, phelloderm	d) Phellem, phellogen, cortex	
	402. Gymnosperms lack which of the following structure	e?	
	a) Tracheids b) Vessels	c) Xylem d) Phloem	
	403. A branch or a flower develops in the axil of the leav		
	a) Axillary bud b) Apical bud	c) Apical meristem d) Tissue	
	404. During secondary growth of plants, stem phellogen		
	differentiated intoA and the inner cells gets diff		
	Choose the correct combination of A and B with ref		
	a) A coork; B-phellem	b) A-secondary cortex; B-phelloderm	
	c) A-secondary cortex; B-primary cortex	d) A-cork/phellem; B-secondary cortex	
	405. Vascular system includesA bundles, which can bundles are dependent on the size ofC The wai	ns vary in thickness in the reticulate venation of the	
	D leaves	is vary in unexhess in the redediate venation of the	
	Choose the correct combination of A to D		
	a) A-phloem, B-midrib, C-veins, D-dicot	b) A-xylem, B-midrib, C-veins, D-dicot	
	c) A-vascular, B-midrib, C-veins, D-dicot	d) A-vascular, B-midrib, C-veins, D-monocot	
	406. Estimation of the age of the tree is done by		
	a) Counting the epidermal rings	b) Measuring the pith diameter	
	c) Counting the annual rings	d) Counting the late woods only	
	407. Meristematic cells have		
	a) Thick cell wall and large intercellular spaces	b) Thick cell wall and no intercellular spaces	
	c) Thin cell wall and large intercellular spaces	d) Thin cell wall and no intercellular spaces	
	408. Which combination of tissues acts together to prov		
	a) Epidermis and collenchyma	b) Xylem and parenchyma	
	c) Epidermis and parenchyma	d) Xylem and phloem fibres	
	409. Sclereids are commonly found in the		
	I. fruits wall of nuts		
	II. pulp of fruit like guava and pear		
	III. seed coat of legumes		
	IV. micropile of pea Select the correct combination		
	a) All except I b) All except II	c) All except III d) All except IV	
	410. The cells of the endodermis are rich inA grains		
	correct combination of A an B from the options give		
	1		

a) A-protein; B-protein	b) A-fat; B-lipid			
c) A-starch; B-carbohydrate	d) A-starch; B-starch			
411. Identify from the following, a plant tissue in which l	ignin does not occur in the	cell walls?		
a) Collenchyma b) Sclerenchyma fibres	c) Sclereids	d) Xylem tracheae		
412. Identify A , B and C the given diagram	•			
00000000000000000000000000000000000000				
a) A-Tracheid, B-Vessels, C-Vessels				
b) A-Vessels, B-Tracheid, C-Companion cell				
c) A-Companion cell, B-Vessels, C-Tracheid				
d) A-Xylem fibre, B-Vessels, C-Vessels				
413. Which is true for Meristematic tissue?				
a) Their cells have dense cytoplasm and prominent	nuclei			
b) Their cells are dead with large intercellular spaces				
c) These are usually modified for storage				
d) Their cells are most primitive, living and without	nuclei			
414. A tree grows 5 cm per year. What will be the height	of a board fixed 10 cm abo	ve the base after 10 years?		
a) 50 cm b) 60 cm	c) 10 cm	d) 70 cm		
415. I. Found only in sporophytic phase of life cycle				
II. May contain enzymes that are biologically active				
III. Often contain strengthening polymers				
Select the correct option for cell wall	MOTTAT			
a) All are correct except I	b) All are correct except l	I		
c) All are correct except III	d) All are correct			
416. Motor cells are found in				
a) Monocot leaf	b) Upper epidermis of mo	onocot leaf		
c) Brain	d) Spinal cord			
417. Vascular bundle without cambium is called				
a) Closed vascular bundle	b) Open vascular bundle			
c) Radial vascular bundle	d) Conjoint vascular bund	dle		
418. Specialised regions of plants having active cell divis	ion are called			
a) Tissues b) Organs	c) Meristems	d) All of these		
419. I. During secondary growth, a complete ring is form	ed by vascular cambium			
II. Interfascicular cambium originates from medulla	ry ray cells			
III. Vascular cambium form xylem on the inside and phloem on the outside due to differential action of				
hormones				
Select the correct combination of option				
a) I and II are correct				
b) II and III are correct				
c) I and III are correct				
d) I, II and III				
420. In the following, how the sapwood is converted into				
a) By degeneration of protoplast of living cells	b) Tylosis formation			
c) By deposition of resins, oils, gums, etc	d) All of the above			

Gplus Education old dicot stem is

421. Sequence of cellular layers from the periphery tow	ards the cortex in an old d	licot stem is		
a) Epidermis, hypodermis, phellogen, phelloderm	b) Epidermis, phelloge:	n, phellem, epidermis		
c) Epidermis, hypodermis, cortex, endodermis	d) Epidermis, phellem,	phellogen, phelloderm		
422. I. Dicotyledon leaf is also called isobilateral leaf				
II. Monocotyledon leaf is also called dorsoventral l	eaf			
Select the correct option from the options given be				
a) I and II are correct				
b) I is correct, but II is incorrect				
c) II is incorrect, but I is correct				
•				
d) I and II are incorrect				
423. Which of the following statements are not true?				
I.Cork cambium is otherwise called phellogen.				
II.Cork is otherwise called phellem.				
III.Secondary cortex is otherwise called periderm.				
IV. Cork cambium, cork and secondary cortex are o	collectively called phello	oderm		
a) III and IV b) I and II	c) II and III	d) II and IV		
424. In leaves, the ground tissues consists of				
a) Epidermis b) Vascular tissue	c) Mesophyll cells	d) Medullary rays		
425. Phloem conducts food by				
a) Perforated sieve plates	b) Bast fibres			
c) Xylem parenchyma	d) Xylem fibres			
426. Continuous ring of cambium is formed by	a) Hyrom Horos			
a) Intrafascicular cambium	b) Interfascicular camb	nium		
c) Lateral meristem	d) Both (a) and (b)	num		
427. Ground tissue does not include				
I. epidermis				
II. vascular bundle	0 A 777 O L I			
III. sclerenchyma IV. collenchyma	CAHON			
111 contend ma				
V. parenchyma				
Select the right combination from the above given				
a) I and II b) III and IV	c) I and V	d) I and IV		
428. Identify the correct order of the components with	reference to their arrange	ment from outer side to inner		
side in a woody dicot stem.				
I.Secondary cortex				
II.Autumn wood				
III.Secondary phloem				
IV.Phellem				
a) II, III, I and IV b) III, IV, II, and I	c) IV, I, III and II	d) I, II, IV and III		
429. In which of the following, there is no differentiatio		•		
a) Ashok b) Neem	c) Mango	d) Datepalm		
	, ,			
430A are structures present in the epidermis of leaves. They regulate process of transpiration an exchange. It is composed of two bean-shaped cells known asC cells.				
Choose the correct combination of A, B and C from	- -	ua C aubaidiar		
a) A Stowatz B system C subsidiary	b) A–Stomata, B–gaseo	-		
c) A–Stomata, B–water, C–subsidiary	d) A–Stomata, B–water	r, c–guard		