1.

MERISTEM TO VASCULAR BUNDLES

A meristem may be defined as the group of cells which -

	` '	usly to give rise to neve e and add to the group						
2.	Histogens are comp (1) Apical meristen (3) Lateral meristen	1		(2) Intercalary meristem(4) Secondary meristem				
3.	In monocotyledon r (1) Dermatogen	oots, the histogen pres (2) Procambium	ent at the apex of the r (3) Calyptrogen	nt at the apex of the root tip is (3) Calyptrogen (4) Plerome				
4.	Root cap is not four (1) Hollyhock	nd in – (2) Pistia	(3) Sunflower	(4) China rose				
5.	How many histoger (1) 1	ns are present in monoci (2) 2	cot root apex. (3) 3	(4) 4				
6.	The secondary meri (1) Promeristem (3) Primary perman	e m						
7.	The function of roo (1) Provide protecti (3) Absorption of n	on to root apex	· · ·	(2) Storage of food products(4) None of the above				
8.	In quiescent zone, I (1) High	ONA content is- (2) Low	(3) Very high (4) Balance					
9.	Meristem present at lamina margin is: (1) Apical meristem (3) Mass meristem (4) Marginal meristem							
10.								

11.

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Aerenchyma is helpful to plants by -

	(1) Providing buoyancy to hydrophytes(3) Give mechanical strength to plants	(2) Promoting photosynthesis (4) Giving flexibility to plants				
12.	Function of collenchyma is- (1) Photosynthesis (3) Both	(2) Mechanical support	ort			
13.	In plants, which of the following cells are li (1) Xylem vessels (2) Meristem	iving (3) Cork	(4) Fibers			
14.	Which of the following tissues form the ma (1) Parenchyma (2) Collenchyma	nin bulk of storage organ (3) Sclerenchyma	n - (4) Aerenchyma			
15.	Pulp of a fruit is made up of mainly (1) Parenchyma (2) Collenchyma	(3) Sclereids	(4) Meristem			
16.	Mechanical tissue consisting of living cells (1) Sclerenchyma (2) Collenchyma	is – (3) Chlorenchyma	(4) Parenchyma			
17.	Collenchyma differs from sclerenchyma in (1) Retaining protoplasm at maturity (3) Having a wide lumen	(2) Having thick wall (4) Being meristematic				
18.	Which of the following tissue provide ter & swaying (1) Parenchyma (2) Collenchymas	nsile strength to young (3) Sclerenchyma	g dicot stem against bending (4) Sclereids			
19.	Which of the following plant organs do not (1) Monocot root (2) Monocot stem	contain collenchymas (3) Dicot Root	(4) All of the above			
20.	Cell walls of sclerenchymatous cells have l (1) Cellulose (2) Pectin		(4) Silica			
21.	Which of the following plant cell are witho (1) Cambium cells (2) Xylem vessels	out vacuoles without and (3) Root hairs	l are dead – (4) Companion cells			
22.	Maximum bordered pits are found in trache (1) Monocotyledons (2) Dicotyledons	eids of – (3) Pteridophytes	(4) Gymnosperms			
23.	The cell functionally associated with sieve (1) Phloem fibres (3) Companion cell	tube element is - (2) Phloem Parenchyn (4) Collenchyma	ma			
24.25.	Bast fibres are mostly found in – (1) Secondary xylem (2) Secondary phloer Vessels and companion cells are respective (1) Gymnosperm (2) Pteridophyte	· · ·	(4) Primary xylemand phloem of(4) Bryophyta			

26.	Phloem parenchyma is absent in –	(2) Managara atau	(4) D ' 4 · · 4				
	(1) Dicot stem (2) Dicot leaf	(3) Monocot stem	(4) Dicot root				
27.	Edible part of pear fruit is gritty due t (1) Collenchyma (2) Xylem fibro		(4) Sclerenchymatous fibres				
28.	Thickenings in collenchymas is main (1) Cellulose (2) Pectin	ly due to deposition of – (3) Lignin	(4) Suberin				
29.	The chief function of a xylem vessel in (1) Conduct sap (3) Eliminate excess of water at night	(2) Conduct miner	ant body is to – (2) Conduct mineral salts only (4) Translocate organic nutrients				
30.	End walls of tracheids and vessels res (1) Pitted & perforated (3) Both perforated	spectively are (2) Perforated & proceedings (4) Both pitted	itted				
31.	Quiescent centre theory was proposed (1) Schuepp (2) Hanstein	1 by (3) Clowes	(4) Nageli				
32.	Long pointed sclerenchyma cells are (1) Fibres (2) Tracheae	(3) Wood parenchy	yma(4) Sclereids				
33.	Sieve tubes are characterised by (1) Absence of septa (3) Perforated longitudinal walls	(2) Simp <mark>le oblique</mark> (4) Perforated obli	septa que septa (Sieve plate)				
35.	P-protein is a constituent of (1) Sieve tube elements (3) Parenchyma	(2) Xylem parench (4) Peri cycle	(2) Xylem parenchyma (4) Peri cycle				
35.	When xylem and phloem are on same (1) Radial (2) Conjoint		les are said to be – (4) Exarch				
36.	A vascular bundle in which phloem from it by strips of cambium is said to (1) Collateral open (2) Bicollateral	•	des of the xylem and separated (4) Bicollateral closed				
37.	A concentric amphivasal vascular but (1) Centrally located xylem is surrout (2) Centrally located phloem is surrout (3) Phloem is flanked by xylem on in (4) Xylem is flanked by phloem on experience.	nded by phloem unded by xylem terior side only					
38.	Amphivasal vascular bundles are four (1) Cycas and Dryopteris (3) Helianthus and Cucurbit	<u> </u>					

39.	The basic difference between stem and root is that xylem in stem is –									
	(1) Endarch	(2) Exarch	(3) Mesarch	(4) Polyarch						
40.	Which xylem elen	nent is living :-								
	(1) Vessels	(2) Tracheids	(3) Fibre	(4) Parenchyma						
	PRIMARY	INTERNAL STRUC	TURE TO SECONDA	ARY GROWTH						
41.	A tiggue of oninhy	tes which is capable of a	phorhing water from a	ir ic known ac						
41.	(1) Cork	(2) Velamen	(3) Epiblema	(4) Hypodermis						
42.	Velamen tissue is									
	(1) Breathing roots		(2) Parasitic plants							
	(3) All aerial roots	•	(4) Aerial roots of e	piphytic orchids						
43.	Collenchymatous	hypodermis is character	istic feature of –							
	(1) Dicot stem		(2) Monocot stem							
	(3) Monocot as we	ell as dicot stem	(4) Hydrophytes							
44.	Innumerable (man found in –	y) vascular bundles, lac	ck of cambium and lac	ek of a well demarcated pith is						
	(1) Sugarcane, Gra	ass (2) Sunflower, Neer	m (3) Radish, Neem	(4) Pea, Peepal						
45.	Cortex and pith ar	e not distinguished in –								
15.	(1) Monocot stem	_	(3) Dicot stem	(4) Dicot root						
46.	(1) Open and surro(2) Closed and not(3) Closed and sur	eteristics of a vascular but bunded by a sclerenchyn a surrounded by bundle s burrounded by bundle shea surrounded by a bundle s	natous bundle sheath sheath th							
47.	In dicot root									
		les are scattered with car								
	(2) Vascular bundles are open and arranged in a ring (3) Yylam and phloam are radial									
	•	(3) Xylem and phloem are radial(4) Xylem is always end arch								
48.		A dicot root differs from a monocot root in which of the following –								
	(1) Presence of pil	iferous layer								
	(2) Presence of ex		1 1 1 1 1							
	(4) Separate radial	developed (Poorly deve	eloped) pith							
49.	- · · · ·	ch vascular bundles are	the characteristic of-							
٦),	(1) Dicot stem	(2) Dicot root	(3) Monocot stem	(4) Monocot root						
50.	Water cavity & V	or Y-shaped xylem occi	urs in-							

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	(1) Dicot stem	(2) Monocot root	(3) Monocot stem	(4) Dicot root			
51.	In which of the follow (1) Centripetal (3) Both centripetal &	ving order, an exarch x	kylem develops – (2) Centrifugal (4) Irregular				
52.	Hard bast (Bundle ca (1) Sunflower stem	p) occurs in – (2) Wheat stem	(3) Sunflower root	(4) 1 & 3 both			
53.	Vascular bundles in C (1) Bicollateral & open (3) Collateral & open	en	(2) Bicollateral & closed(4) Amphivasal				
54.	Position of xylem & 1 (1) Abaxial & Adaxia (3) Both Adaxial	phloem in leaf respecti al	ively- (2) Adaxial & Abaxial (4) Both abaxial				
55.	The function of hypor (1) Protection (3) Mechanical suppor		(2) Hardness (4) Storage				
56.	In leaves, the vascula (1) Bicollateral & ope (3) Collateral & close	en	(2) Collateral & open (4) Radial & exarch				
57.	Vascular bundles are (1) Maize stem	found scattered in grou (2) Sunflower stem	and tissue in – (3) Gram root	(4) Isobilateral leaf			
58.	• •	ent in maize stem is – (2) Collenchymatous	(3) Sclerenchymatous	s (4) Meristematic			
59.	Passage cells are four (1) Dicot stem	nd in endodermis of- (2) Monocot stem	(3) Orchid stem	(4) Monocot root			
60.	Pith is produced by (1) Ground meristem	(2) Procambium	(3) Periblem	(4) Dermatogen			
61.	Sugar transport elements (1) Sieve cells	ents of gymnosperms & (2) Sieve elements	t pteridophytes are – (3) Sieve tubes	(4) Sieve tube elements			
62.63.	When protoxylem fact (1) Endarch Which wood conduct (1) Heart wood (3) Wood with lots of	-	d (3) Exarch (2) Sapwood (4) All of the above	(4) Polyarch			
64.	Phelloderm is formed	l by –					

	(1) Vascular cambium(3) Fascicular cambium	(2) Phellogen(4) Interfascicular cambium							
65.	Dendrochronology is the study of determination of- (1) Height of a tree (2) Diameter of a tree (3) Age of a tree with the help of annual rings (4) Counting of the number of branches								
66.	A timber merchant told his customer that lo 20 years old tree, he told so by inspecting th (1) Diameter of log (3) Number of cork layers	og of wood which he was purchasing comes from a ne – (2) Thickness of the heart wood (4) Annual rings							
67.	Annual rings are well demarcated in trees gr (1) Shimla (2) Bombay / Delhi	rowing in- (3) Madras (4) Udaipur							
68.	In trees, the annual rings represent (1) Primary xylem (2) Secondary xylem	(3) Secondary phloem (4) Cambium							
69.	Annual rings are the bands of – (1) Secondary cortex and cork (3) Secondary xylem and xylem rays	(2) All secondary vascular tissue(4) Secondary phloem and medullar rays							
70.	Growth rings are formed due to the activity (1) Intrastelar cambium (3) Extrastelar cambium	of- (2) Intercalary cambium (4) Primary cambium							
71.	When a tree grows older which of the follow (1) Heart wood (2) Sapwood	ving increased rapidly – (3) Pith (4) Cortex							
72.	Lenticels do not occur on- (1) Stem (2) Root	(3) Leaf (4) Fruit							
73.	External protective tissues are- (1) Cortex and epidermis (3) Cortex and epicycle	(2) Cork and epicycle(4) Cork and epidermis							
74.	Which of the following provide maximum r (1) Heart wood (2) Sapwood	mechanical strength to a tree trunk. (3) Cork (4) Late wood							
75.	Youngest layer of secondary xylem is locate (1) In the centre of stem (3) Just outside the vascular cambium	ed (2) Just outside the pith (4) Just inside the vascular cambium							
76.	Extra stelar secondary growth in dicot stem (1) Intrafasdcular cambium	occurs due to the activity of (2) Interfasdcular cambium							

	(3) Vascular cambium	(4) Cork cambium				
77.	Living tissue in lenticel is called (1) Conjunctive tissue (3) Complementary tissue	(2) Connective tissue(4) Phelloderm				
78.	Normally secondary growth takes place in- (1) Dicots& Monocots (3) Dicots & Gymnosperms	(2) Gymnosperms & Monocots(4) Only in dicots				
79.	Select true statements:- (a) Lenticels are absent in w.oody climbers at (b) Lenticels occur in most woody trees (c) The spring wood is lighter in colour and (d) The sap wood also called as duramen (1) a, band c are correct					
	(3) b and d are correct	(4) a and c are correct				
80.	Formation of which tissue is example of ded (1) Interfasdcular cambium (3) Intrafasdcular cambium	diff <mark>erentiati</mark> on (2) Apical meristem (4) Intercalary meristem				
81.	What happens to primary phloem in stem after (1) Compresses outside and degenerates (3) Becomes part of sec phloem	fter sec growth (2) Compresses inside and degenerates (4) Modifies in sclerenchyma				
82.	Which tissue remains more active during spr (1) Cork cambium (3) Parenchyma	ring (2) Vascular cambium (4) Sclerenchyma				
83.	Water conduction in stem of tree takes place (1) Duramen (2) Sapwood					
84.	How many types of cells are present in vasci (1) Two types, fusiform & ray initial (3) Only ray initial	ular cambium of dicot stem (2) Only fusiform initial (4) Three types fusiform, ray and medullary rays.				
85. 86.	Cork cambium is (1) Always primary meristem (3) May be secondary or primary meristem Normally in dicot stems, phellogen develops (1) Hypodermis (3) Endodermal cells	 (2) Always secondary meristem (4) Partly primary & partly secondary meristem s from (2) Phellem (4) Epidermal & pericycle cells 				
87.	Suberin in chiefly deposited in the cells of (1) Sclerenchyma (2) Collenchyma	(3) Cork (4) Phelloderm				

88.	Which of the following	ng is a meristematic tis	sue							
	(1) Phellem	(2) Phellogen	(3) Phelloderm	(4) Periderm						
89.	Sea shore trees do no	t show annual rings be	cause							
	(1) There is little clin	_		(2) They belong to monocots						
	(3) There is low temp		(4) Soil is sandy							
	(e) 111010 18 18 W temp		(1) 2011 15 541145							
90.	Secondary growth in	dicots and gymnosperi	ms occurs by							
	(1) Formation of vascular rays									
	(2) Thickening of trac	cheary elements								
	(3) Formation of mer	(3) Formation of meristematic cells in vascular region								
	(4) Development of r	neristematic cells in va	scular & cortical regi	ions						
91.	The balloon like outg	rowths of parenchyma	in the lumen of a ves	ssel are known as						
	(1) Histogen	(2) Tyloses	(3) Phellogen	(4) Tunica						
	()	() 5								
92.	Which of the following	ng tissues originate fro	m ray initials of camb	bium						
	(1) Tracheids & vesse	els	(2) Sieve tubes & companion cells							
	(3) Xylem & phloem	fibres	(4) Radial rows of parenchyma							
02	C - v1- :11- v4 ·									
93.		material for making both	* *							
	(1) Cheap	(2) Easily available	(3) Air tight	(4) Light						
94.	In monocot stems, se	condary growth cannot	t occur because vascu	ılar bundles are						
<i>,</i>	(1) Scattered	(2) Open	(3) Closed	(4) Radial						
	` ,	` '		,						
95.	Gymnosperm wood i	s non porous because i	t							
	(1) Lacks vessels		(2) Contains trachea	ne						
	(3) Has abundant fibr	es	(4) Contains no fibr	es						
0.6	D 1: 1	11								
96.	Porous wood is chara		(2) Presence of years	-1 ₀						
	(1) Absence of trache		(2) Presence of vessels(4) Presence of sieve-tubes							
	(3) Absence of vessel	18	(4) Presence of siev	e-tubes						
97.	Outer part of bark is									
<i>\</i>	(1) Epidermis	(2) Rhytidome	(3) Phelloderm	(4) Lenticel						
98.	Secondary growth is	•	(6) 1 110110 0001111	(1) 20111001						
	(1) New tissues from	-	(2) New conduction	cells						
	(3) New tissues from	lateral meristem	(4) New ground cell	ls						
99.	Each annual ring con	sists of two strips of	-							
	(1) Autumn & spring	wood	(2) Heart wood & sa	ap wood						
	(3) Xylem and phloei	n	(4) Cork & cortex							
100	Turken Con 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:: 1								
100.	Intrafascicular cambi		(2) Incide the was arri	lor hundlos						
	(1) In between the va		(2) Inside the vascu(4) In pith	iai vulluics						
	(3) Outside the vascu	iai bulluies	(4) III þiui							

An example of mono	cots showing secondary (2) Pea	y growth in stem is (3) Asparagus	(4) Yucca					
Vascular tissue havin (1) Primary xylem	_		(4) Metaxylem					
Amount of secondary (1) Equal	xylem as compared to (2) 8-1 0 times	secondary phloem for (3) Half	med every year is (4) 4-5 times					
		ving: (2) Scattered vascular bundle (4) Radial vascular bundle						
Which one increases (1) Length	due to cambium: (2) Width	(3) Circumference	(4) None					
(1) Broad vessels and	tracheids	ring wood by:- (2) Narrow vessels and tracheids (4) Cambium						
In which plant palisac (1) Nerium	de tissue is present on b (2) Eucalyptus	ooth sides of leaves:- (3) Both (1) & (2)	(4) None					
(1) Secondary xylem	& Secondary phloem	(2) Primary xylem & (4) Only Primary xyle	<u> </u>					
There is no result of 'Girdling Experiment' in monocot plants, due to: (1) Presence of wax layer on the surface of its stem (2) Stem is comparatively thin (3) Phloem is inside xylem (4) Vascular bundles are not in specific position								
Collateral, open vascu (1) Dicot stem	ular bundle and Eustele (2) Monocot stem	e is present in :- (3) Monocot root	(4) Dicot Root					
(1) Only dicot root		(2) Only monocot roo (4) Roots of vascular						
Casparian strip is fou (1) Epidermis	nd in :- (2) Endodermis	(3) Endothecium	(4) Endothelium					
	Vascular tissue havin (1) Primary xylem Amount of secondary (1) Equal Monocot root is diffe (1) Open vascular but (3) Large pith Which one increases (1) Length Autumn wood can be (1) Broad vessels and (3) Red colour of xyle In which plant palisae (1) Nerium Vascular cambium fo (1) Secondary xylem (3) Only Secondary p There is no result of '(1) Presence of wax I (2) Stem is comparati (3) Phloem is inside x (4) Vascular bundles Collateral, open vascu (1) Dicot stem Radial Vqscular bundles Casparian strip is four	Vascular tissue having abundant vessels and (1) Primary xylem (2) Secondary xylem Amount of secondary xylem as compared to (1) Equal (2) 8-1 0 times Monocot root is differ from dicot root in hav (1) Open vascular bundle (3) Large pith Which one increases due to cambium: (1) Length (2) Width Autumn wood can be differentiated from spr (1) Broad vessels and tracheids (3) Red colour of xylem In which plant palisade tissue is present on to (1) Nerium (2) Eucalyptus Vascular cambium forms:- (1) Secondary xylem & Secondary phloem (3) Only Secondary phloem There is no result of 'Girdling Experiment' in (1) Presence of wax layer on the surface of in (2) Stem is comparatively thin (3) Phloem is inside xylem (4) Vascular bundles are not in specific position (2) Monocot stem Radial Vqscular bundles are found in: (1) Only dicot root (3) Only Pteridophyta Casparian strip is found in:-	Vascular tissue having abundant vessels and fibers is (1) Primary xylem (2) Secondary xylem (3) Protoxylem Amount of secondary xylem as compared to secondary phloem for (1) Equal (2) 8-1 0 times (3) Half Monocot root is differ from dicot root in having: (1) Open vascular bundle (2) Scattered vascular (3) Large pith (4) Radial vascular bundle (2) Scattered vascular bundle (3) Large pith (4) Radial vascular bundle (1) Length (2) Width (3) Circumference Autumn wood can be differentiated from spring wood by: (1) Broad vessels and tracheids (2) Narrow vessels and (3) Red colour of xylem (4) Cambium In which plant palisade tissue is present on both sides of leaves: (1) Nerium (2) Eucalyptus (3) Both (1) & (2) Vascular cambium forms: (1) Secondary xylem & Secondary phloem (2) Primary xylem & (3) Only Secondary phloem (4) Only Primary xylem & (2) Stem is comparatively thin (3) Phloem is inside xylem (4) Vascular bundles are not in specific position Collateral, open vascular bundle and Eustele is present in : (1) Dicot stem (2) Monocot stem (3) Monocot root Radial Vqscular bundles are found in : (1) Only dicot root (2) Only monocot root (3) Only Pteridophyta (4) Roots of vascular Casparian strip is found in :-					

ANSWER KEY

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EXERCISE-II (Previous Year Question)

1.	(3)	2.	(1)	3.	(3)	4.	(2)	5.	(4)	6.	(3)	7.	(1)
8.	(2)	9.	(4)	10.	(1)	11.	(1)	12.	(3)	13.	(2)	14.	(1)
15.	(1)	16.	(2)	17.	(1)	18.	(2)	19.	(4)	20.	(3)	21.	(2)
22.	(4)	23.	(3)	24.	(2)	25.	(3)	26.	(3)	27.	(3)	28.	(2)
29.	(1)	30.	(1)	31.	(3)	32.	(1)	33.	(4)	34.	(1)	35.	(2)
36.	(2)	37.	(2)	38.	(2)	39.	(1)	40.	(4)	41.	(2)	42.	(4)
43.	(1)	44.	(1)	45.	(1)	46.	(3)	47.	(3)	48.	(3)	49.	(4)
50.	(3)	51.	(1)	52.	(1)	53.	(1)	54.	(2)	<i>55.</i>	(3)	56.	(3)
57.	(1)	58.	(3)	59.	(4)	60.	(1)	61.	(1)	62.	(3)	63.	(2)
64.	(2)	65.	(3)	66.	(4)	67.	(1)	68.	(2)	69.	(3)	70.	(1)
71.	(1)	72.	(3)	73.	(4)	74.	(1)	75.	(4)	76.	(4)	77.	(3)
78.	(3)	79.	(1)	80.	(1)	81.	(1)	82.	(2)	83.	(2)	84.	(1)
85.	(2)	86.	(1)	87.	(3)	88.	(2)	89.	(1)	90.	(4)	91.	(2)
92.	(4)	93.	(3)	94.	(3)	95.	(1)	96.	(2)	97.	(2)	98.	(3)
99.	(1)	100.	(2)	101.	(4)	102.	(2)	103.	(2)	104.	(3)	105.	(3)
106.	(2)	107.	(3)	108.	(1)	109.	(4)	110.	(1)	111.	(4)	112.	(2)

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