Anatomy

1.	True statement regarding meristems											
	A: All Lateral meristems are primary.											
	B: All Apical mer											
	C: Some intercala	ry meristems are sec	ondary.									
	1) A & B	2) B & C	3) C & A	4) Only B	nly B							
2.	Assertion A: In meristematic cells centrally located nucleus is present.											
Reason R: Large vacuole is absent in meristematic cells.												
	1) Both A & R are true and R is the correct explanation of A.											
	2) Both A & R are	e true but R is not the	e correct explanation	n of A.								
	3) A is true, R is f	alse										
	4) A is false, R is	true.	C									
3.	Primary merister	m that increases the	e thickness of the st	em.								
	1) Apical merister	m 2) Intercalary mer	ristem 3) Cambi	um 4) Phellogen.								
4.	Tissue that helps	the plants from ela	stic stress.									
	1) Collenchyma	2) Parench	yma 3) Sclerer	chyma 4) Aerenchyma								
5.	Life long activity	of meristems is see	n in									
	A : Apical meriste	ems	B : Intercalary m	eristem								
	C : Vascular camb	pium	D : Cork Cambiu	ım.								
	1) Only B	2) Only D	3) A,C,D	4) A,B,C								
6.	Tissues present	nly below the epide	ermis is									
	1) Pericycle	2) Phellogen	3) Collenchyma	4) Sclerenchyma								
7.	Vascular bundles	s in stem are										
	1) Exarch	2) Mesarch	3) Diarch	4) Endarch								
8.	Endarch and clos	sed vascular bundle	es are present in									
	1) Dicot stems	2) Monoco	ot stem 3) Dicot r	oot4) Monocot root								
9.	Stele in monocot	stem is										
	1) Eustele2) Dictyostele3) Atactostele4) Protostele											
10.	Polyarch, exarch	vascular bundles a	re present in									
	1) Dicot root	2) Dicot stem	3) Monocot root	4) Monocot stem								
11.	Open vascular b	undles are present i	n									
	1) Dicot stem	2) Dicot root	3) Monocot stem	4) Monocot root	4) Monocot root							

12.	Pericycle helping in secondary growth in									
	1) Dicot root	2) Dicot stem	3) Monocot stem	1	4) Monocot root					
13.	True statement rega	arding secondary gr	owth							
	1) Only in open va	scular bundles it is s	een							
	2) Roots don't show	v any secondary gro	wth							
	3) Secondary grow	th results from seco	ndary meristems		•					
	4) Primary merister	owth.								
14.	Closed vascular bu	ndles are seen in								
	1) All roots		2) All stems							
	3) All roots and mo	onocot stem	4) Monocot root	& monoc	ot stem					
15.	Assertion (A) : En	dodermis acts as a	water barrier in r	oots						
	Reason (R) : Ende	odermis shows casp	oarian bands							
	1) Both A, R are tr	ue, R is the correct e	explanation of A							
	2) Both A, R are tr	ue but R is not the c	orrect explanation o	of A						
	3) A is true, R is fa	lse 4) A	is false, R is true							
16.	Difference in the v	ascular bundles of d	icot and monocot st	tems						
	I. Development	II. Cambiu	m activity							
	III. Arrangement IV. Shape in respective stems									
	1) I & II	2) II & III	3) III & I	V	4) I & IV					
17.	Loosely arranged	cells in lenticels ar	e							
	1) Complementary	2) Conjunctive	3) Epither	n	4) Cork cells					
18.	Assertion (A) : Th	e thickness of sap	wood does not incr	ease						
	Reason(R) : Sap v	vood constantly be	comes into heartwo	bod						
	1) Both A, R are tr	ue, R is the correct e	explanation of A							
	2) Both A and R ar	e true but R is not th	ne correct explanation	on of A						
4	3) A is true, R is fa	lse								
	4) A is false, R is t	rue								
19.	Fibro vascular bu	ndle are seen in								
	I. Monocot stems		II. Dicot l	eaf						
	III. Monocot leaf		IV. Dicot	stem						
	1) I & III 2) II & III 3) III & IV 4) IV & I									

20.	In leaves xylem in present towards											
	1) Lower side	2) Abaxial side	3) Ventral si	de 4) Dorsal side								
21.	False statement regardin	g the anatomy of gy	rmnosperms									
	I Secondary growth is absent in Gymnosperms											
	III. Sieve tubes and tracheids are absent.											
	IV. Albuminous cells are present in the phloem.											
	1. I & II	2. I & III	3. II & IV	4. III & IV.								
22.	Character of early wood											
	1) Vessels with narrow lun	nen	2) Less number of	vessels								
	3) Wide vessels		4) Very dark colou	· ·								
23.	True statement regardin	g fascicular cambiu	m									
	I. It is primary meristem		X									
	II. It produces secondary xylem towards inside											
	III. It produces more second	ndary phloem than xy	vlem									
	IV. Its activity does not de	pend on seasons										
	1) I & II	2) II & III	3) III & IV	4)I & IV								
24.	Correct arrangement of	tissues centripetally	in secondary grow	th								
	1) Cork \rightarrow primary phloer	$n \rightarrow vascular cambin$	$um \rightarrow$ secondary ph	loem								
	2) Cork cambium \rightarrow corte	$x \rightarrow$ endodermis \rightarrow	vascular cambium									
	3) Secondary cortex \rightarrow cor	$k \rightarrow phellogen \rightarrow v$	ascular cambium \rightarrow	primary xylem								
	4) Medulla \rightarrow primary xy	lem \rightarrow secondary xy	$lem \rightarrow vascular can$	ıbium								
25.	True statement among th	ne following										
	I. All apical meristems are	primary										
	II. All primary meristems are apical											
	III. Some lateral meristem	s are primary										
4	IV. Some secondary meris	tems are lateral										
	1) I & II	2) Only II	3) I & IV	4) I & III								
26.	True statement among th	ne following										
	1) Meristems can perform											
	2) Living mechanical tissu	e can perform photos	synthesis									
	3) Meristems store food m	aterial										
	4) Sclerenchyma can store food material											

27.	Assertion (A): Collenchyma protects plant during bending movements												
	Reason(R): They are present below epidermis												
	1) Both A, R are true, R i	s the correct ex	xplanati	ion of A									
	2) Both A, R are true but	R is not the co	rrect ex	xplanation of A	A								
	3) A is true, R is false												
	4) A is false, R is true												
28.	Primary meristems who	se activity is f	òr a sh	ort period									
	1) Apical 2) Ca	mbium 3) Ph		nellogen	4) Intercalary								
29.	Outer most layer of per	iderm				3							
	1) Cork cambium	2) Phelloder	m	3) Phellem	4) Epi	dermis							
30.	Bulliform cells are prese	ent in											
	1) Abaxial epidermis of d	icot leaf		2) Abaxial e	pidermis of mo	onocot leaf							
	3) Dorsal epidermis of me	onocot leaf	4) Ventral epidermis of Poaceae leaf										
31.	The striking difference be	etween dicot sto	em and dicot root under microscope										
	1) Multicellular hairs in dicot stem 2) Exarch xylem in roots												
	3) Absence of medulla in	dicot root	4) Large cortex and clear endodermis in dicot roo										
32.	Sclerenchymatous hypo	dermis in seer	n in										
	1) Monocot stem 2) D	icot stem	3) Mo	onocot root	4) Dic	ot root							
33.	Closed vascular bundle	but secondary	y growth is seen in										
	1) Dicot stem 2) D	icot root	3) Mo	onocot stem	4) Mo	4) Monocot root							
34.	Functions of conjunctive	e tissue in dico	ot root	is									
	I. Storage		II. Mechanical support										
	III. Dedifferentiation		IV. Lateral root production										
	1) I & II	2) II & III		& I									
35.	Suberin is seen in												
	1) Cells of Exodermis	2) Endodern	nis	3) Phellum	4) All	4) All the above							
36.	Phloem parenchyma is a	absent in											
	1) Dicot stem 2) M	3) Di	cot root	nocot root									
37.	Best region in stem to o	oserve primar	y inter	nal structur	e is								
	1) Apex	2) Node	3) Between root & stem 4) Internode										

38. Medullary rays function in dicot stem is

- A) Lateral conduction of water
- C) Formation of secondary meristems
- B) Mechanical support

D) Protection against pathogens.

1. A & B 2. A & C 3. A, C & D 4. B, C & D

39. Bicolletaral vascular bundles consisting of

- 1. Xylem on either side of phloem.
- 3. Phloem on either side of Xylem.
- 2. Cambium on either side of phloem
- 4. Centrally located Xylem surrounded by phloem.

40. Ground tissue system consisting of

- 1. Cortex and stele
- 2. Medulla and cortex
- 3. Tissues other than epidermis and vascular tissue
- 4. Tissues other than endodermis and vascular tissues.

Anatomy-key

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
1	1	3	1	3	3	4	2	3	3	1	1	3	3	2	2	1	1	1	3
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
2	3	4	2	4	2	2	4	3	4	4	1	2	3	4	2	4	2	3	3
	2																		