Model Question Paper

Botany-Plant Anatomy-Part IV

12th Standard

	12tii Stanuaru					
	Biology	Reg.No.:		П		
-	I.Answer all the questions.					
-	II.Use blue pen only.					
Tin	ne : 01:00:00 Hrs			To	tal Ma	rks : 85
	Part-A				5	5 x 1 = 5
1)	When the tangential walls are thickened and the radial walls are devoid of thickening that type of collenchyma is					
	(a) lamellar collenchyma (b) angular collenchyma (c) lacunate collenchyma (d) storage collenchyma					
2)	Osteosclerids are found in the					
	(a) seed coat of pisum (b) seed coat of Crotalaria (c) pulp of pyrus (d) hypodermis of Nicotiana					
3)	The tissues developed by procambium are					
	(a) primary xylem and secondary xylem (b) primary phloem and secondary phloem (c) primary xylem and primary phloem (d)	secondary xyle	m and s	econd	ary ph	loem
4)	The important feature of sieve element is					
	(a) presence of nucleus and lining layer of cytoplasm (b) presence of thick secondary wall (c) presence of pits in their lateral wall	l				
	(d) nucleus is absent and it contains a lining layer of cytoplasm					
5)	When protoxylem vessels occurs towards the centre and metaxylem towards the periphery it is known as					
	(a) collateral (b) polyarch (c) endarch (d) exarch					
	Part-B				5 :	x 3 = 15
6)	What is a respiratory cavity or sub-stomatal cavity?					
7)	What is a bundle sheath or border parenchyma in a leaf?					
8)	What are the functions of veins in a leaf?					
9)	What is a bicollateral vascular bundle ?					
10)	What are called passage cells?					
	Part-C				5	x 5 = 25
11)	Draw and label the parts of T.S of monocot <mark>leaf (gras</mark> s leaf).					
12)	Write a note about Lenticles.					
13)	Write a note about Annual rings.					
14)	Write a note about Tyloses.					
15)	Write the difference between sap wood and heart wood. (or) Write short notes on sap wood and heart wood.					
	Part-D				4 x	10 = 40
	Describe the primary structure of a dicot root.					
17)	Describe the primary structure of a monocot root.					
18)	Write anatomical differences between dicot stem and monocot stem.					
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19) Describe the primary structure of a monocot stem.
