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SARDAR PATEL UNIVERSITY B.Sc. 6th Semester BOTANY: US06CBOT22

ANATOMY OF ANGIOSPERMS

Date:05/04/2022 Day:Tuesday Time:3:00 pm to 5:00 pm Total Marks: 70

Note: Draw neat and labeled diagrams wherever necessary.

1 Multiple Choice Questions (Attempt all)

(10)

is an example of complex tissue. 1. (c) Xylem (d) None of the these (b) Collenchyma (a) Parenchyma 2. The embryo is developed from (d) All of the these (c) Cotyledons (b) Zygote (a) Seed vascular bundles. 3. The dicotyledonous roots possess (d) None of these (c) Endarch (b) Mesarch (a) Exarch 4. Which of the following is a principal food conducting tissue? (d) Endodermis (a) Phloem (b) Xylem (c) Cortex 5. Balloon like outgrowth of parenchyma into the lumen of vessels is known as ____. (d) Tyloses (b) Tunica (c) Histogen (a) Phellogen 6. Timber is (d) Secondary cortex (a) Secondary phloem (b) Secondary xylem (c) Cork 7. The vascular cambium in dicot is meristem. (c) Secondary (d) Intercalary (a) Lateral (b) Apical 8. In xerophytes the stomata are_ (b) Raised above the epidermis (a) Absent (d) At the level of epidermis (c) Sunken LIBRAR 9. Epidermal hairs help in_ (b) Reducing water loss (a) Ttrapping insects /Na (d) None of these (c) Both a & b 10. Periderm occurs (b) Cork, cork cambium and secondary cortex (a) Cork (d) Secondary cortex (c) Cambium [PTO]



× .	2 Fill in the blanks / True or False: The flexibility in plants is due totissue.	(08) (collenchyma/ sclerenchyma)
(2)	Radial vascular bundles are seen in	(stems/ roots)
(3)	Meristem producing the secondary xylem and second	dary phloem is
2	called	(vascular cambium/ cork cambium)
(4)	The term used to determine the age of tree by counti	ng the annual rings
	is called .	(dendrochronology/ pharmacognosy)
(5)	Apical meristem occurs at the apices of root and sten	n. (True/False)
. ,	Intercalary meristem results in secondary growth.	(True/False)
	Cuticle is secreted by endodermis.	(True/False)
	Heart wood helps in mechanical support.	(True/False)
. ,	 A Short questions (Attempt any 10) Write the use of plant anatomy in forensics. What is palynology? Write polarity in plants. What is Kranz anatomy? Define hydathodes. What is laticifer? 	
	 7. Define secondary growth. 8. What is axial system in plant? 9. Define tyloses. 10. Write about epicuticular wax. 11. Define stomata. 12. What is hydrophytes? 	V. Nagat
Q. 4 Long questions (Attempt any 4) (1) Write definition and characteristics of meristematic tissue.(32)		
	(2) Describe application of plant anatomy in pharmacognosy.	
	(3) Write note on phloem.	
	(4) Describe Apical cell theory and Histogen theory.	
	(5) Explain in detail secondary growth in dicot root.	
	(6) Describe structure and function of vascular cambium.	
	(7) Discuss various types of glandular trichomes with example.	
(8) Describe anatomical adaptations in xerophytes. ————————————————————————————————————		