



INDIAN SCHOOL DARSAIT

DEPARTMENT OF BIOLOGY



Subject : Biology

Topic : Anatomy of
Flowering plants

Date of Worksheet: 9-1-2018

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Date of submission: _____

Name of the Student : _____

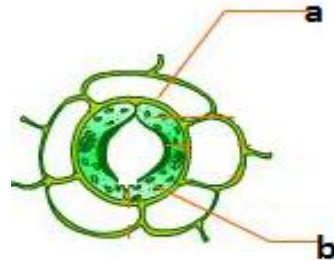
Class & Division : XI B

Roll Number : ____

S.No.	Questions	Marks
1 .	Which meristem increases length of the plant?	1
2.	What is heart wood and sap wood?	1
3.	Name the roots that have polyarch vascular bundles?	1
4.	Jute fibres are used for making rope. Which tissue represent jute fibres?	1
5.	Where are bulliform cells found in leaves?	1
6.	State the role of pith in stem.	1
7.	A plant tissue is stained and observed. It show the presence of hemicellulose and pectin in cell wall of its cell. Identify the tissue.	1
8.	Mention the name of the leaf tissue which contains chloroplast.	1
9.	How is cambial ring in a dicot stem formed during secondary growth?	1
10.	Name the anatomical layer in the root from which the lateral branches of root originate.	1
11.	Differentiate between Tracheids and vessels.	2
12.	What are lenticels ?Mention their function.	2
13.	Where do you find companion cells? Give their function.	2
14.	How are open vascular bundles different from closed vascular bundles?	2
15.	Given below are various types of tissues. State their functions. a. Parenchyma b. Collenchyma c. Sclerenchyma	2

d. Chlorenchyma

16. Why cambium is considered to be lateral meristem? 2
17. What are hair like structures present on root and stem ?State their functions. 2
18. Define the following 2
i)Protoxylem
ii)Metaxylem
iii)Protophloem
iv)Metaphloem
19. Differentiate between Radial and conjoint vascular bundles. 2
20. What are casparian strips ? Where are they found? 2
21. Differentiate between endarch and exarch conditions. 3
22. A student is given two slides to observe one is meristematic tissue and another is permanent tissue .How will he distinguish between them? 3
23. Observe the following figure and answer the following questions: 3
a)Label the parts a and b
b)Which part of stomata constitute the stomatal apparatus?
c)Is this stomata present in monocot or dicot plant. Justify your answer.



24. a)What are meristems? 5
b)Name the various kinds of meristems in plants.
c)State the location and functions of meristems.
25. What is secondary growth in plants? Describe various steps of secondary growth in dicot stem with the help of a diagrams. 5