



XI-SCI : Biology
Plant Tissues and Anatomy,

DATE:

TIME: 1 hour 30
minutes

MARKS: 25

SEAT NO:

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Note:-

1. All Questions are compulsory.
2. Numbers on the right indicate full marks.

Section A

Q.1 Select and write the correct answer.

(4)

1. Hypodermis of sunflower stem is made up of
A) parenchyma B) collenchyma
C) sclerenchyma D) aerenchyma
2. One of the following is NOT a component of periderm
A) sapwood B) cork
C) cork cambium D) secondary cortex
3. The venation pattern in Mango is
A) reticulate unicostate B) parallel unicostate
C) reticulate multicostate D) parallel multicostate
4. Location or position of meristematic regions is divided into types.
A) 1 B) 2
C) 3 D) None of the above

Q.2 Answer the following.

(3)

1. What is anatomy?
2. Define Spring wood.
3. Define Alburnum.

Section B

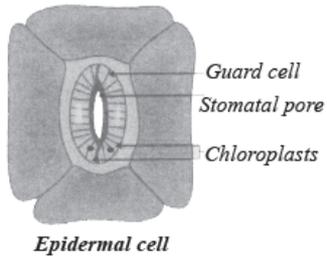
Attempt any Four

- Q.3 Concentric vascular bundles are always closed. Describe. **(2)**
- Q.4 There were two cut logs of wood lying in the campus. One had growth rings and other didn't. Teacher said it is due to differences in their pattern of growth which is dependent on season. How? **(2)**
- Q.5 Write a short note on isobilateral leaf. **(2)**
- Q.6 Describe sclerenchyma sclerids. **(2)**
- Q.7 A fresh section was taken by a student but he was very disappointed because there were only few green and most colourless cells. Teacher provided a pink colour solution. The section was immersed in this solution and when observed it was much clearer. What is the magic? **(2)**
- Q.8 Write short note of secondary meristem. **(2)**

Section C
Attempt any Two

Q.9 Student found a wooden stopper in lab. He was told by an old lab attendant that it is there for many years. He kept thinking how it did not rot? (3)

Q.10 Write the information related to diagram given below. (3)



Q.11 Describe the living tissue that gives flexible mechanical strength. (3)

Section D
Attempt any One

Q.12 Describe various types of vascular bundles. (4)

Q.13 Give a brief account of phloem tissue. (4)