



Avinashilingam Institute for Home Science and Higher Education for Women
Deemed to be University Estd. u/s 3 of UGC Act 1956 Category 'A' by MHRD [now MoE]
Re-accredited with 'A++' Grade by NAAC CGPA 3.65/4, Category I by UGC
Coimbatore - 641 043, Tamil Nadu, India

Continuous Internal Assessment II April 2025
II Semester

Class :IM.Sc
Branch :Botany

Time:2Hours
Max.Marks:60

23MBOC08 Anatomy of Angiosperms

Course Outcomes:

1. Knowledge on fundamental concepts of plant anatomy
2. Understand the structure and importance of meristems in tissue organization of plant
3. Understand the various tissue systems and wood anatomy
4. Knowledge on Primary anatomical structure and practical skills in anatomical sectioning
5. Understand the secondary structure in plants and evaluate the ecological adaptations in plants

PartA

Choose the correct answer

6x1=6

1. The outermost region of stem is covered by
a. cork cells b. cambium c. pericycle d. secondary cortex CO3K2
2. Who recognized three tissue system in plants?
a. Sachs b. Bridges c. Fleming d. Waldeyer CO3K2
3. The pith is also known as
a. cortex b. medulla c. hypodermis d. supporting tissue CO4K2
4. Protoxylem towards outside is called
a. endarch b. exarch c. mesarch d. centrarch CO4K1
5. Find out the odd one from the plants given
a. *Bignonia* b. *Mirabilis* c. *Dracaena* d. *Bougainvillea* CO5K1
6. _____ is an example of halophyte
a. *Hydrilla* b. *Eichhornia* c. *Opuntia* d. *Avicennia* CO5K2

PartB

Answer ALL the Questions

Answer should not exceed 400 words or two pages

3x6=18

- 7.a. Explain tyloses with illustrations CO3K1
(Or)
- 7.b. Write a short note on fundamental tissue system CO3K2
- 8.a. Differentiate monocot and dicot leaf with diagram CO4K2
(Or)
- 8.b. Give an account on cambium CO4K2
- 9.a. Describe the development of cork during secondary growth CO5K3
(Or)
- 9.b. Give a brief account on halophytes CO5K1

PartC

Answer ALL the Questions

Answer should not exceed 800 words or four pages

3x12=36

- 10.a. Give an account on scope of anatomy in different fields CO3K2
(Or)
- 10.b. Write briefly about Nodal anatomy in dicots and monocots CO3K2
- 11.a. Differentiate monocot and dicot stem with illustrations CO4K2
(Or)
- 11.b. Explain the structure and role of cambium in wound healing, budding and grafting CO4K2
- 12.a. Illustrate the anomalous secondary growth in *Bignonia* stem CO5K2
(Or)
- 12.b. Describe the morphological, anatomical and ecological adaptations in Xerophytes CO5K2

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