



# 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 Test I – February 2025

### Semester-II

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. Anatomical characters help in identifying the \_\_\_\_\_ of the medicinal plants  
a. toxicity b. specificity c. family d. order CO1K3
2. Anatomical characters used in Plant systematic include  
a. Trichomes b. Stomata c. Cambium d. all the above CO1K3
3. Promeristem gives rise to \_\_\_\_\_ meristem  
a. lateral b. primary c. apical d. secondary CO2K3
4. Xylem is a type of \_\_\_\_\_ tissue  
a. simple b. secretory c. complex d. cork CO2K2
5. Vascular bundles are exarch & tetrach in  
a. dicot root b. monocot root c. dicot stem d. monocot stem CO3K2
6. Fibres associated with phloem are  
a. hard fibres b. wood fibres C. bast fibres d. surface fibres CO3K2

#### PartB

#### AnswerALLtheQuestions

Answershouldnotexceed400wordsor two pages

3x6=18

- 7.a. Give an account on plant anatomy in systematics (Or) CO1K1
- 7.b. Comment on Adcrustation and incrustation CO1K2
- 8.a. Write about cell wall ingrowth and transfer cells (Or) CO2K2
- 8.b. Write about the theories of shoot apical meristem CO2K2
- 9.a. Give an account on hydathodes with diagram (Or) CO3K3
- 9.b. Comment on ground tissue system CO3K1

#### PartC

#### AnswerALLtheQuestions

Answershouldnotexceed800wordsorthree pages

3x12=36

- 10.a. Give an account on scope of anatomy in different fields (Or) CO1K2
- 10.b. Comment on the cytodifferentiation of tracheary elements and sieve elements CO1K2
- 11.a. Write short notes on external secretory tissues (Or) CO2K4
- 11.b. Explain the various theories of root apical meristem CO2K4
- 12.a. Give an account on Vascular tissue system (Or) CO3K2
- 12.b. Comment on various types of wood CO3K2

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