

Reg. No.:



Name:

University of Kerala

U8701

Second Semester FYUGP Degree Examination, April 2025

Discipline Specific Core Course

BOTANY

UK2DSCBOT102 - Anatomy of Flowering Plants

Academic Level: 100-199

Time: 1 Hour 30 Minutes(90 Mins.)

Max. Marks: 42

Part A. 6 Marks.Time:6 Minutes.(Cognitive Level:Remember(RE)/Understand(UN)) Objective Type. 1 Mark Each.Answer all questions

Qn No.	Question	CL	CO
1	Name the type of vascular tissue responsible for food transport.	RE	3
2	What type of venation is found in dicot leaves?	RE	4
3	Write a non-nitrogenous excretory product from plants.	UN	1
4	Mention one example of a glandular secretory tissue in plants.	UN	2
5	How does the epidermis help in reducing water loss?	UN	3
6	How do bulliform cells help the plants.	UN	5

Part B.8 Marks.Time:24 Minutes.(Cognitive Level:Understand(UN)/Apply(AP))Short Answer. 2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	How do primary and secondary meristems differ in function?	UN	2
8	Describe the role of plasmodesmata in plants	UN	1
9	Apply the structural differences in ground tissue systems to justify their function in roots, stems, and leaves.	AP	3
10	How does the resin in a plant protect it from herbivores around it?	AP	1

Part C. 28 Marks.Time:60 Minutes (Cognitive Level:Apply(AP)/Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer.7 marks each.Answer all 4 Questions choosing among options * within each question

Qn No.	Question	CL	CO
11	A) What is wood? what are its different types? OR B) What would happen if a plants cambium stops functioning? Explain.	AP	3, 3
12	A) Differentiate between simple, complex, and secretory tissues. OR B) Differentiate raphides and cystolith with diagram.	AN	1, 4

Qn No.	Question	CL	CO
13	A) Evaluate the Role of the Epidermal Tissue System in Plant Adaptation. OR B) Evaluate the different types of secretory products seen in plants.	EV	4, 4
14	A) Create a flowchart explaining the hierarchical organization of meristems based on origin, position, and plane of division OR B) Draw a chart of different parenchyma tissues. Mention the functions of each type.	CR	4, 4