



Reg. No.:

Name:

University of Kerala

First Semester FYUGP Degree Examination, December 2025

Discipline Specific Core Course

BOTANY

UK1DSCBOT105 - Morphology of Flowering Plants

Academic Level: 100-199

2024 Admission onwards

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 | What is caruncle? | RE | 2 |
| 2 | What are the essential whorls of a flower? | RE | 1 |
| 3 | What is a rhizome? | UN | 3 |
| 4 | Describe the function of Bulb. | UN | 1 |
| 5 | Describe syncarpous condition | UN | 3 |
| 6 | Define Sorosis | UN | 1 |

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 | Classify special types of inflorescence with example . | UN | 2 |
| 8 | Why do some plants develop pneumatophores? | UN | 2 |
| 9 | Jack fruit and Custard apple are morphologically different. Explain | AP | 2 |
| 10 | In high-wind zones, sugarcane remains upright. Identify the root type responsible and explain its role. | 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) | AP | 2, 2 |

| Qn No. | Question | CL | CO |
|--------|---|----|------|
| | <p>b. Explain the features of different fruit types with the help of suitable diagram.</p> <p>OR</p> <p>B)</p> <p>Classify racemose inflorescence</p> | | |
| 12 | <p>A)</p> <p>Differentiate the different types of placentation found in flowering plants with diagram.</p> <p>OR</p> <p>B)</p> <p>Analyze the different types of leaves and their morphological features, including leaf shape, margin, base, and apex.</p> | AN | 2, 2 |
| 13 | <p>A)</p> <p>List out the various types of aestivation with a diagram..</p> <p>OR</p> <p>B)</p> <p>a. Evaluate the cohesion and adhesion of stamens with diagram</p> | EV | 2, 2 |
| 14 | <p>A)</p> <p>Design chart that explain various parts of a typical Dicot leaf with a diagram.</p> <p>OR</p> <p>B)</p> <p>Create a flowchart showing root modifications in angiosperms based on the function</p> | CR | 4, 4 |