

B.Sc. Semester-III Examination, 2022-23**BOTANY [Honours]**

Course ID : 31311 Course Code : SH/BOT/301/C-5

Course Title : Morphology and Anatomy of Angiosperms

Time : 1 Hour 15 Minutes Full Marks : 25

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*1. Answer any **five** from the following questions:

1×5=5

- Name the edible part of an apple.
- What is gynobasic style?
- What are sclereids?
- Mention the edible part of hesperidium type of fruit.
- What do you mean by primordial meristem?
- Give one basic difference between early wood and late wood.
- What do you mean by diacytic type of stomata?
- What is stone cell?

2. Answer any **two** from the following questions:

5×2=10

- Briefly discuss different types of cohesion of stamen with proper example. What is staminode? 4+1
- Explain with suitable examples the different types of phylotoxy. 5
- Give an account of different types of vascular bundles. What is exarch xylem? 4+1
- What is periderm? Give an account of its structure and function. 1+4

3. Answer any **one** from the following questions:

10×1=10

- What are Xerophytes? Describe the various anatomical adaptations of xerophytes. What is trichome? 2+6+2
- Describe with sketches the intrastealar secondary growth in dicot stem. Explain histogen theory in relation to organization of root apex. 6+4
