

**M.Sc. BOTANY**  
**First Semester**  
**ADVANCED MORPHOLOGY, ANATOMY &**  
**TAXONOMY OF ANGIOSPERMS**  
**(MSB - 103)**

**Duration: 3Hrs.**

**Full Marks: 70**

Part-A (Objective) =20  
Part-B (Descriptive) =50

**(PART-B: Descriptive)**

**Duration: 2 hrs. 40 mins.**

**Marks: 50**

**Answer any four from *Question no. 2 to 8***  
***Question no. 1 is compulsory.***

1. Define meristematic tissue. Describe their classification and structural characters in angiosperms. (1+9=10)
2. What is periderm? Explain the method of its formation and its uses. (1+6+3=10)
3. "Many of the phylogenetic system of classification have more in common with Bentham and Hooker natural system of classification." Justify the statement. (10)
4. Discuss the floral morphology of Orchidaceae. Mention its floral formula and floral diagram. (10)
5. Discuss the characteristic features of early angiosperms with evolutionary trend in their floral structures. (4+6=10)
6. "Asteraceae is considered as the highest evolved among dicotyledonous families." Justify the statement. (10)
7. Give an account of the organisation, activities and publication of Botanical Survey of India (BSI). (3+4+3=10)



8. Write the distinguishing characters and floral formula of the following families—

a. Acanthaceae

[(1.5+1)×4=10]

b. Lamiaceae

c. Rubiaceae

d. Brassicaceae

\*\*\*\*\*