

**PG CBCS**  
**M.SC. Semester-II Examination, 2021**  
**BOTANY**  
**PAPER: BOT 201**  
**ANGIOSPERM TAXONOMY**

**Full Marks: 40****Time: 2 Hours****Write the answer for each unit in separate sheet****UNIT- BOT 201.1**

**Answer any TWO questions of the following:** 10X2=20

1. Write down the difference of the following: 5X2 =10
  - (a) Plesiomorphy and Apomorphy .
  - (b) Paraphyly and Polyphyly
  - (c) Effective and Valid publication.
  - (d) Homology and Homoplasy.
  - (e) Flora and vegetation
2. What are the salient features of subclass Caryophyllidae? Mention the affinities among the orders of this taxon. Comment on chemotaxonomy of Caryophyllidae. 4+2+4
3. Define digital herbarium? Write the basic differences between digital and traditional herbarium? What are the advantages and disadvantages of digital herbarium? 2+4+4
4. What is ICN? Write the principles of ICN for naming of plants. What do you mean by effective and valid publication? 2+4+4

**UNIT- BOT 201.2**

**Answer any TWO questions from the following:** 10X2=20

1. What are Semantides? Write about the role of phytochemicals in solving taxonomical debates citing any two examples. 2+8
2. Define Biodiversity. Discuss about different causes of the loss of biodiversity in India. Comment on megadiversity hotspots. 2+5+3
3. Define Taximetrics. Write the principles of numerical taxonomy. Write a brief note on the application of ethnobotany in human welfare. 2+4+4

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4. What is ecospecies? Differentiate between phonetics and cladistics. Write about different categories of biosystematics. 2+4+4

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