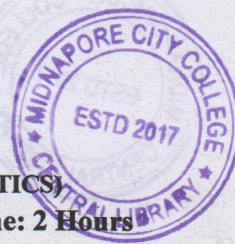


2018-19

**PG (NEW) CBCS**  
**M.Sc. Semester-II Examination, 2019**  
**BOTANY**  
**PAPER: BOT-201**  
**(ANGIOSPERM TAXONOMY & BIOSYSTEMATICS)**  
**Full Marks: 40**

Time: 2 Hours



**Use Separate Answer Scripts for each units**

**BOT 201.1**

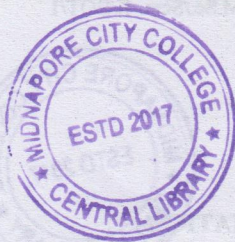
**ANGIOSPERM TAXONOMY**

**Marks-20**

1. Answer any two questions of the following: 2×2=4
  - a) Define heterobathmy. Cite an example.
  - b) Name one flora and one catalogue.
  - c) Name two informal groups added in APG IV, 2016.
  - d) What are chapter F and chapter H?
  
2. Answer any two questions of the following: 4×2=8
  - a) Write a short note on herbarium in taxonomic study.
  - b) Mention the plesiomorphic features of Alismatidae.
  - c) Briefly discuss the rules of valid publication.
  - d) Discuss about types considered in ICN.
  
3. Answer any one question of the following: 8×1=8
  - a) Give the outline of Takhtajan's system of classification (2009) upto subclasses. Mention two merits and two demerits of the system.  
6+1+1
  - b) Characterize the subclass Magnoliidae (Cronquist, 1981). Mention the plesiomorphic features of this subclass. 6+2

(Turn over)





(2)

**BOT 201.2**  
**BIOSYSTEMATICS**

**Marks-20**

4. **Answer any two questions of the following:** **2×2=4**
- a) What is semantides? Cite examples.
  - b) What are euryalynous taxa? Cite examples.
  - c) Distinguish  $\alpha$ - and  $\beta$ - taxonomy.
  - d) What are OTUs and OEUs?
5. **Answer any two questions of the following:** **4×2=8**
- a) Define Ethnobotany. Briefly enumerate the uses of ethnobotany in human welfare.
  - b) Mention the role of micro-morphological study in solving the taxonomic problem.
  - c) Write short notes on the Hotspots of India.
  - d) Mention the categories of Biosystematic study.
6. **Answer any one question of the following:** **8×1=8**
- a) Enumerate the palynological characters used in taxonomy. Give some examples where palynological characters are used in taxonomic study. **2+6**
  - b) Define chemotaxonomy. Mention the phytochemical characters and their taxonomic significance. Mention why proteins serve as the most important character in chemotaxonomic study. **1+3+4**

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