

(FOR THE CANDIDATES ADMITTED  
DURING THE ACADEMIC YEAR 2021 ONLY)

21PBY309

REG.NO. :

**N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI**  
**END-OF-SEMESTER EXAMINATIONS : DECEMBER-2022**  
**COURSE NAME: M. Sc.- BOTANY** **MAXIMUM MARKS: 70**  
**SEMESTER : III** **TIME : 3 HOURS**

**TAXONOMY OF ANGIOSPERMS**

**SECTION - A (10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**MULTIPLE CHOICE QUESTIONS.**

**K1**

1. Bentham and Hooker system of classification of angiosperms is called\_\_\_\_\_.  
a) Phylogenetic system b) Natural system c) Artificial system d) None of the above
2. In Herbarium technique long specimens are folded to give a \_\_\_\_\_ shape.  
a) N or W b) X or Y c) W or Z d) Z or M
3. Oleaceae family plants are characterized with the presence of \_\_\_\_\_ stamens.  
a) Ten b) Five c) Four d) Two
4. Which one of the following plant belongs to the family of Caryophyllaceae?  
a) *Dianthus spp* b) *Cleome spp* c) *Nymphaea spp* d) *Ranunculus spp*
5. ICBN refers to \_\_\_\_\_.  
a) Indian code of Botanical Nomenclature  
b) International code of Botanical Names  
c) International code of Botanical Nomenclature  
d) Indian code of Botanical Names

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES. K2**

6. APG I, II, III and IV are?
7. Define flora.
8. What is Citation?
9. Define Chemotaxonomy.
10. GIS-Expand

**SECTION – B (5 X 4 = 20 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. K3**

11. a) Define typification and effective and valid publication.  
(OR)  
b) Explain the merits and demerits of the natural classification.
- 12.a) List the major herbarium in India and its role .  
(OR)  
b) Write about monograph and revision.

13.a) Write down the vegetative characters of the family Magnoliaceae.

(OR)

b) Explain the floral characters of Rhamnaceae and its economic importance.

14.a) Illustrate the floral characters of Oleaceae with digram.

(OR)

b) List the 10 economic important plants of Poaceae with binomial.

15.a) Write a detailed account of computerized software in plant taxonomy.

(OR)

b) Discuss numerical taxonomy.

**SECTION - C**

**(4 X 10 = 40 MARKS)**

**ANSWER ANY FOUR OUT OF SIX QUESTIONS**

**(16<sup>th</sup> QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS K4 & K5)**

16. Write notes on modern trends in plant taxonomy.

17. Explain APG systems of classification.

18. Write an essay on herbarium techniques

19. Compare the vegetative and floral characters of Aizoaceae and Lythraceae .

20. Write down the vegetative and floral characters of the family Bignoniaceae.

21. Discuss the molecular taxonomy and its applications.

\*\*\*\*\*