

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2022 ONLY)

22PBY309

REG.NO. :

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : NOVEMBER-2023

COURSE NAME: M.Sc.- BOTANY

MAXIMUM MARKS: 50

SEMESTER: III

TIME : 3 HOURS

TAXONOMY OF ANGIOSPERMS

SECTION – A

(10 X 1 = 10 MARKS)

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

1. Choose the system of classification based on a number of characters Is referred as_____.
a) Phylogenetic system b) Artificial system c) Natural system d) All of the above
2. What is the size of herbarium sheet standard?
a) 41.25 x 28.75 cms b) 21.25 x 28.75 cms c) 28.25 x 28.75 cms d) 31.25 x 28.75 cms
3. Select the families that show the characters such as fleshy leaves, hairy or scarios stipulate, unilocular ovary with 2 to many camphylotropous ovules on a basal central placenta with 2-5 styled condition.
a) Portulacaceae b) Tiliaceae c) Sapindaceae d) Azioaceae
4. Which type of inflorescence is present in Poaceae family?
a) Corymb b) Panicle c) Compound spikelet d) Raceme
5. Who developed the principles of Numerical taxonomy?
a) Bentham and Hooker b) Engler and Prantl c) Sneath and Sokal d) Takhtajan and Cronquist

ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES.

(K2)

6. Define citation.
7. Illustrate vasculum.
8. Interpret the characters of Rhamnaceae (2 Points)
9. Explain the flowers of Loranthaceae.
10. Define GIS.

SECTION – B

(5 X 3 = 15 MARKS)

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

11. a) Describe the merits of Engler and Prantal system of classification.

(OR)

b) Interpret valid publication.

12. a) Assess biosystematic categories.

(OR)

b) Interpret monograph.

(CONTD.....2)

13. a) List out the floral characters of Caryophyllaceae.
(OR)
b) Describe the economic importance of Tiliaceae.
14. a) List out the floral characters of Liliaceae.
(OR)
b) Describe the economic importance of Verbenaceae.
15. a) Interpret Bar coding in plants.
(OR)
b) Describe the applications of molecular taxonomy.

SECTION – C**(5 X 5 = 25 MARKS)**

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS.
(K4 (Or) K5)

16. a) Outline Bentham and Hooker system of classification.
(OR)
b) Summarize APG IV system of classification.
17. a) Interpret modern trends in taxonomy.
(OR)
b) Discuss the steps involved in herbarium technique.
18. a) Examine the floral characters of Sapindaceae.
(OR)
b) Discuss the economic importance of Combretaceae.
19. a) Discuss the floral characters of Oleaceae.
(OR)
b) Summarize the economic importance of Poaceae.
20. a) Discuss numerical taxonomy in detail.
(OR)
b) Criticize GIS in taxonomy.
