

D 10122

(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER U.G. DEGREE EXAMINATION, NOVEMBER 2021**

(CUCBCSS—UG)

Botany

BOT 5B 06—ANGIOSPERM MORPHOLOGY AND PLANT SYSTEMATICS

Time : Three Hours

Maximum : 80 Marks

**Part A**

*Answer all questions  
Each question carries 1 mark.*

1. Which type of inflorescence is found in Ocimum plant?
2. A winged achene is known as.
3. Modified tap root which is spherical in shape and tapers sharply at the tip is called?
4. Where is Malabar Botanical Garden situated ?
5. What is hemicyclic flower ?
6. Name two medicinal plants of Solanaceae.
7. What is numerical taxonomy ?
8. What are monographs in taxonomy?
9. Who is the author of the book “the Flora of the Presidency of Madras” ?
10. Accessory covering of certain seeds that commonly develops from the seed stalk, found in both angiosperms and gymnosperms is called \_\_\_\_\_ .

(10 × 1 = 10 marks)

**Part B (Short Answer Type Questions)**

*Answer all questions.  
Each questions carries 2 marks.*

11. What are the aspects of taxonomic revision ?
12. What is a taxonomic key ?
13. What is effective publication ?
14. On what features cytotaxonomy is based.

**Turn over**

15. Give the botanical names of any two economically important plants of Rutaceae.
16. Describe synandrous condition.
17. Write the family and scientific name of custard apple.
18. Describe the floral characters of Liliaceae.
19. What is folk taxonomy based on ?
20. What is Pneumatophore ? What is its function ?

(10 × 2 = 20 marks)

### Part C (Short Essay)

*Answer any six questions.  
Each question carries 5 marks.*

21. Explain the objectives and importance of systematics.
22. Briefly explain the contribution of early taxonomists:Caesalpino and Bauhin
23. Describe the different types of phyllotaxy.
24. Give an account of economic importance of Lamiaceae
25. Describe the different types of stem modifications with suitable examples.
26. Explain adnation in Solanaceae.
27. Briefly explain APG system.
28. Describe the inflorescence in Euphorbiaceae.

(5 × 6 = 30 marks)

### Part D (Essay Questions)

*Answer any two questions.  
Each question carries 10 marks.*

29. What are the floral characteristics of Poaceae ? Explain economic importance of Poaceae.
30. Why Bentham and Hooker system of classification is called a natural system of classification? Briefly explain the Bentham and Hooker system of classification.
31. Explain the classification of fruits based on morphology with suitable examples.

(2 × 10 = 20 marks)