



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :.....

Name :.....

Fifth Semester B.Sc. Degree Examination, November 2016

First Degree Programme under CBCSS

Core Course: Botany – IV

**AUBO541: Angiosperm Morphology, Systematic Botany, Economic Botany,
Ethno Botany and Pharmacognosy**

Time: 3 Hours

Max. Marks: 80

SECTION – A

Answer ALL questions in one or two sentences.

1. Exalbuminous seeds.
2. Pollinia.
3. Pappus hairs.
4. Hypogyny.
5. Syconus fruit.
6. Free central placentation.
7. Obdiplostemonous condition.
8. Spirocyclic flower.
9. Dye yielding plants.
10. Phylogenetic system of classification.

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding one paragraph.

11. Compare descendingly imbricate and ascendingly imbricate aestivation.
12. Differentiate synandrous and syngenesious condition.
13. Describe the gynoecium of *Papilionoideae*.
14. Compare legume and follicle.

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15. Comment on the basic rules of Binomial Nomenclature. Cite one example.
16. Mention any four primitive characteristics in *Annonaceae*.
17. What is gynostegium ? Where do you observe it ?
18. What is the botanical name, family and morphology of asafoetida.
19. Mention any two ethnobotanical importance of *Ficus religiosa*.
20. Name the botanical name and family of species from which sesame oil is obtained.
21. Why Linnaeus system of classification is called a sexual system ?
22. Mention the scope of Pharmacognosy.

(8 × 2 = 16 Marks)

SECTION – C

Short essay type : Answer any SIX questions.

23. Explain the steps involved in herbarium technique.
24. What is chemotaxonomy ? How is it useful in taxonomic studies ?
25. Describe the floral characteristics of *Orchidaceae*.
26. Write a short note on the merits and demerits of Bentham and Hooker's classification.
27. Draw the floral diagram and floral formula of a typical *Asclepiadaceae* member.
28. Mention any four economically important plants in *Euphorbiaceae* and their uses.
29. Compare capsule, lomentum, samara and hesperidium.
30. Write a brief account on the sources of crude drugs.
31. Mention the medicinal values of *Vinca rosea* and *Zingiber officinale*.

(6 × 4 = 24 Marks)

SECTION – D

Long essay type : Answer any TWO questions.

32. Make a comparison of three sub – families of Leguminosae.
33. Asteraceae is considered as an advanced family in dicotyledons. Comment on this.
34. Explain the general characteristics of Gramineae. Add a note on its economic importance.
35. Write a detailed account on inflorescence and its classification.

(2 × 15 = 30 Marks)

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