



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :.....

Name :.....

Third Semester B.Sc. Degree Examination, November 2016

First Degree Programme under CBCSS

Complementary Course: Botany – III (for Zoology)

**AUBO331.2e: Systematic Botany, Economic Botany, Ethno Botany and
Plant Breeding**

(for 2014 Admissions – Improvement Only)

Time: **3 Hours**

Max. Marks: **80**

SECTION – A

Write short notes on ALL the following.

1. Vasculum.
2. ICBN.
3. Oblique Zygomorphism.
4. Corolla in Papilionaceae.
5. Stigma of Apocynaceae.
6. Floral Diagram.
7. Androecium in Liliaceae.
8. Acclimatization.
9. Morphology of useful part of Cotton.
10. Catkin.

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding one paragraph.

11. Explain the features of androecium in Annonaceae.
12. Briefly discuss the position of floral parts on the receptacle.
13. Give the binomial and family of two oil yielding plants.

P.T.O.

- 14. Differentiate Synandrous and Syngenesious condition.
- 15. Explain different systems of classification.
- 16. Contribution of Carolus Linneaus.
- 17. Write down the methods employed in plant breeding to prevent self pollination.
- 18. Explain hybrid vigour and its importance.
- 19. Discuss the significance of Ethnobotany.
- 20. Explain the androecium in Rutaceae.
- 21. Distinguish disc floret and ray floret.
- 22. Explain the importance of mutation breeding.

(8 × 2 = 16 Marks)

SECTION – C

Short essay type : Answer any SIX questions.

- 23. Give an account on Cyathium inflorescence.
- 24. Discuss the methods in preparing a herbarium.
- 25. List out the merits and demerits of Bentham and Hooker’s classification.
- 26. Give the binomial, family and morphology of useful part of the following
i). Bengal gram ii). Ragi iii). Ground nut iv). Clove
- 27. Briefly discuss the features of Verbenaceae.
- 28. Explain the different types of aestivation.
- 29. Compare the floral characters of the subfamilies of Leguminosae.
- 30. Briefly explain the importance of pure line selection in crop improvement.
- 31. Illustrate the structure of Spikelet of Poaceae.

(6 × 4 = 24 Marks)

SECTION – D

Long essay type : Answer any TWO questions.

- 32. Explain various steps involved in Hybridization.
- 33. Discuss the advanced features of Asteraceae.
- 34. Describe the various type of placentations.
- 35. Give an account of different types of cymose inflorescence.

(2 × 15 = 30 Marks)

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