



MAR IVANIOS COLLEGE (AUTONOMOUS)
THIRUVANANTHAPURAM

Reg. No. :.....

Name :.....

Third Semester B.Sc. Degree Examination, November 2015

First Degree Programme under CBCSS

Complementary Course: Botany – III (for Zoology)

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

Time: 3 Hours

Max. Marks: 80

SECTION – A

Write short notes on ALL the following.

1. Adhesion.
2. Monochlamydy.
3. Colchicine.
4. Spathe.
5. Heterosis.
6. Adaptations.
7. Exotic variety.
8. Apocarpous condition.
9. Name the family with reniform anther.
10. Actinomorphy.

(10 × 1 = 10 Marks)

SECTION – B

Answer any EIGHT questions, not exceeding one paragraph.

11. Explain the types of flower based on position of ovary.
12. Distinguish between umbel and corymb.

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13. Describe distant hybridization.
14. What are floral diagram and floral formula ?
15. Differentiate racemose and cymose inflorescence.
16. Write a note on 'Arogyappacha'.
17. Describe head or capitulum.
18. What is clonal selection ?
19. Explain the spikelet.
20. Give a brief account of a special type of inflorescence studied by you.
21. What is vexillary aestivation ?
22. Mention the binomial and family of the following plants
 - i). Black gram
 - ii). Sugar cane

(8 × 2 = 16 Marks)

SECTION – C

Short essay type : Answer any SIX questions.

23. Mention the characteristic features of the family Verbenaceae.
24. What is herbarium ? Describe the stages involved in the preparation of a standard herbarium.
25. Add a note on quarantine and its procedure in India.
26. What are the main objectives of plant breeding ?
27. Explain the characteristic features of the family Rubiaceae.
28. Give the binomial, family and morphology of useful part of the following
 - i). Cardamom
 - ii). Turmeric
 - iii). Gingelly
 - iv). Cotton
29. What is inflorescence ? Describe the various types of cymose inflorescence.
30. Write down the characteristic features of the family Annonaceae.
31. Describe placentation ? Explain any four types of placentation.

(6 × 4 = 24 Marks)

SECTION – D

Long essay type : Answer any TWO questions.

32. Mention the principles and outline of Bentham and Hooker's system of classification. Add a note on its merits and demerits.

33. Explain the vegetative and floral features of the family Apocynaceae. Give the binomial of any two economically important members of the family.
34. Describe the process of hybridization as a means of plant improvement.
35. What are the important features of Poaceae ? Justify its position as the last family of angiosperms.

(2 × 15 = 30 Marks)

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