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Reg. No. : .....

Name : .....

Fifth Semester B.Sc. Degree Examination, December 2017
First Degree Programme under CBCSS
BOTANY
Core Course
BO 1541 – Angiosperm Morphology, Systematic Botany, Economic Botany, Ethnobotany and Pharmacognosy
(2014 Admission Onwards)

Time: 3 Hours

Max. Marks : 80

All Saints' College Trivandrum

I. Answer the following questions. **All** questions carry **equal** marks.

1. Cite an example for multiple fruit.
2. Name morphology of the useful part in *Gossypium*.
3. Write the botanical name of Sesame.
4. What are millets ?
5. Mention the primitive characters of Nymphaeaceae.
6. What is a hypanthodium ?
7. What are albuminous seeds ?
8. Give the binomial of the source plant from which Nimbecidin is obtained.
9. Name any two insect repellents used in Herbaria.
10. Name two Botanic Gardens in Kerala.

(10×1=10 Marks)

II. Answer **any eight** of the following :

11. Write the binomials of any two economically important plants of the family *Verbenaceae*.
12. Write an account on the economic importance of cereals.
13. Give the botanical names of two oil yielding plants.
14. Mention the distinguishing characters of *Lamiaceae*.

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15. Mention the significance of Botanic Gardens in conservation.
16. Give an account on the common medicinal plants used by the tribes in Kerala.
17. Enumerate the floral characters of *Annonaceae*.
18. Write an account on the ethnobotanical importance of *Ocimum sanctum*.
19. Distinguish *Apiaceae* from *Rubiaceae*.
20. Describe floral features of *Acanthaceae*.
21. Briefly explain the androecium in *Asclepiadaceae*.
22. Enumerate diagnostic characters of the family *Apocynaceae*. **(8×2=16 Marks)**

III. Answer **any six** of the following :

23. Describe the role of herbaria in systematic studies.
24. Briefly describe Engler and Prantl's system of classification.
25. List out the basic rules of binomial nomenclature.
26. Give the Botanical name and morphology of useful part of the source plants of Asafoetida and Henna.
27. List out the different symbols used in the construction of floral diagrams.
28. Explain natural and artificial systems of classification.
29. Explain the role of molecular studies in plant systematics.
30. Write an account on the major cereals and pulses cultivated in Kerala citing examples.
31. Enumerate the different sources of crude drugs. **(6×4=24 Marks)**

IV. Write essay on **any two** of the following :

32. Give an account on different types of placentation found in Angiosperms.
33. Explain Bentham and Hooker's system of classification. Add a note on its merits and demerits.
34. Write an account on the significance of ethnobotany in modern times.
35. Write an account on the family *Cucurbitaceae*. Add a note on its economic importance. **(15×2=30 Marks)**

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