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Reg. No. : .....

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Fifth Semester B.Sc. Degree Examination, February 2021

First Degree Programme under CBCSS

Botany

Core Course IX

BO 1541 : ANGIOSPERM MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY, ETHNOBOTANY AND PHARMACOGNOSY

(2015 -17 Admn)

Time : 3 Hours

Max. Marks : 80

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

1. Why Linnaean system is considered as artificial?
2. Give the binomial and family of the plant from which Henna is obtained.
3. Write the scientific name and family of Asafoetida.
4. What is a drupe? Give one example.
5. Explain aggregate fruit.
6. Give the binomial of an economically important plant in the family Apiaceae.
7. Give the ethnobotanical use of *Trichopus zeylanicus*.
8. Give the binomial of the source plant from which vincristine and Vinblastine are obtained.
9. Differentiate between cohesion and adhesion of floral parts.
10. What are exalbuminous seeds?

(10 × 1 = 10 Marks)

P.T.O.

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

11. Name two economically important plants belonging to the family Euphorbiaceae.
12. Write the binomial and family of pepper and cardamom.
13. Give the scientific name and family of two dye yielding plants.
14. Mention the advanced characters of the family Asteraceae.
15. Differentiate simple fruit from multiple fruit.
16. Give an account on how tribes use basil plant to cure ailments.
17. Define pharmacognosy.
18. Describe androecium of Malvaceae.
19. Write a note on 'resupination' in Orchidaceae.
20. Describe the Ethnobotanical importance of *Aegle marmelos*.
21. What is a floral formula? Explain with the help of an example.
22. Name two important herbaria in India.

(8 × 2 = 16 Marks)

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

23. Give an account on the androecium in *Nymphaeg*.
24. Compare the floral characters of the different sub-families of *Leguminosae*.
25. Write an account on the floral features of Orchidaceae.
26. Citing examples, name the different sources of crude drugs.
27. Describe the morphology of useful part and binomial of two oil yielding plants.
28. Explain the importance of herbarium in systematic studies.

29. Explain natural system of classification.

30. Write an account on the basic steps involved in herbarium preparation.

31. Describe the floral characters of sapotaceae.

(6 × 4 = 24 Marks)

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

32. Give an account on different types of inflorescence found in Angiosperms.

33. Briefly discuss the salient features of the family Rutaceae. Add a note on its economic importance.

34. Compare Bentham and Hooker's system with that of Engler and Prantl's system. Add a note on concept of primitive and advanced.

35. Write an essay on the various placentation types encountered in Angiosperms. Cite examples and draw labeled diagrams.

(2 × 15 = 30 Marks)