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## Third Semester B.Sc. Degree Examination, October 2019 First Degree Programme under CBCSS Complementary Course

## BO 1331- SYSTEMATIC BOTANY, ECONOMIC BOTANY, ETHNOBOTANY PLANT BREEDING

(2014 Admission Onwards)

Time: 3 Hours Max. Marks: 80

- I. Write short notes on the following (All questions are compulsory)
- 1 Define Heterosis.
- 2. What is Placentation?
- 3. What is Floral Diagram?
- 4. Explain Acclimatization.
- 5. What is meant by binomial nomenclature?
- Write the binominal of Ragi.
- 7. What is Emasculation?
- 8. Comment on Monadelphous stamen.

- 9. What is Intergeneric Hybridization?
- 10. Define Polyploidy.

 $(10 \times 1 = 10 \text{ Marks})$ 

- II. Answer any eight of the following
- Write the binominal, family and morphology of useful part of cotton.
- 12. What is the importance of Hebarium?
- 13. Write a note on basic rules of binominal nomenclature.
- 14. Describe the artificial system of classification.
- 15. Mention the salient features of corolla in Papilionaceae.
- 16. Write a note on the floral characters of Poaceae.
- 17 Describe spike with an example.
- 18. Write a note on floral characters of the family Verbenaceae.
- 19. Explain the characters of Solanaceae.
- Write the economic importance of the family Malvaceae.
- 21. Write an account on polyploidy breeding.
- 22. Mention objectives of plant breeding.

 $(8 \times 2 = 16 \text{ Marks})$ 

- III. Answer any six of the following
- 23. Write an account on racemose type of inflorescence.
- 24. Describe the ethanobotanical significance of Trichopus zeylanicus.
- 25. Give an account on plant introduction
- Explain the procedure for hybridization.

- 27. Give the binominal, family and morphology of useful parts of the following:
  - (a) Black gram
  - (b) Asafoetida.
- 28. Give the binominal, family and morphology of useful parts of any two spices.
- 29. Distinguish between mass selection and pureline selection.
- 30. Explain phylogenetic system of classification.
- 31. What is aestivation? Explain the different types with examples.

 $(6 \times 4 = 24 \text{ Marks})$ 

- IV. Write essay on any two of the following
- 32. What are the different types of inflorescence? Classify them.
- 33. Write an account on natural system of classification proposed by Bentham and Hooker. Mention the systematic position of Apocynaceae under this system.
- 34. Explain the methodology, application, merits and demerits of mutation breeding.
- 35. Write an account of ethnobotany and its importance in modern medicine.

 $(2 \times 15 = 30 \text{ Marks})$