20U311 (Pages: 2)

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2021

(CBCSS - UG)

(Regular/Supplementary/Improvement)

CC19U BOT3 C03 - MORPHOLOGY, SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT BREEDING & HORTICULTURE

(Botany - Complementary Course)

(2019 Admission onwards)

Time : 2.00 Hours   Maximum : 60 Marks

Credit : 2

(Draw diagrams only when specified. The students can answer all questions in sections A & B)

Part A (Short answer questions)

Answer *all* questions. Each question carries 2 marks.

1. What is opposite phyllotaxy? Explain the types with examples.

2. Describe dichasial cyme with an example.

3. Describe binomial system of nomenclature.

4. Write the general floral formula of Malvaceae.

5. What is decendingly imbricate aestivation.

6. Draw the floral diagram of Caesalpiniaceae.

7. Comment on the stipules of Rubiaceae.

8. Write notes on the inflorescence in Euphorbiaceae.

9. Botanical name and family of any two oil yielding plants that you have studied.

10. Give the binomial, family and useful part of clove.

11. What is 'Triticale'?

12. Explain air layering.

(Ceiling: 20 Marks)

Part B (Short essay questions - Paragraph)
Answer *all* questions. Each question carries 5 marks.

13. Differentiate the types of flowers based on the position of ovary.

14. Major botanical gardens in India.

15. Briefly explain the modern trends in taxonomy.

16. Describe the characters of the family Poaceae.

17. Explain the binomial, family, morphology of useful part and uses of *Rauvolfia serpentina* and *Curcuma longa.*

18. Different types of selection in plant breeding.

19. Explain the methods of grafting.

(Ceiling: 30 Marks)

Part C (Essay questions)
Answer any *one* question. The question carries 10 marks.

20. Describe with diagram the salient features of the family Apocynaceae.

21. Define hybridization and describe the process of hybridization.

(1 × 10 = 10 Marks)

****