22/10/25

TM253812M

Reg. No :.....

Name :.....

MASTER'S DEGREE (C.S.S) EXAMINATION, OCTOBER 2025

2024 ADMISSIONS REGULAR

SEMESTER III - CORE COURSE

BO3C11TM20 - Angiosperm Taxonomy, Economic Botany and Ethnobotany

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight (8x1=8)

1. What is meant by analogy? Describe using an example.
2. Describe phylogenetic species concept.
3. Give an account on the construction of Taxonomic keys.
4. Distinguish between Floras and Revisions.
5. Describe free central placentation.
6. Explain cyathium inflorescence.
7. Explain acrascent calyx.
8. How do ethnobotanical studies help to conserve indigenous knowledge?
9. Explain the uses giving the binomial, family and morphology of useful part of cardamom and cinnamon.
10. List the important oil plants. Give their binomial, family and morphology of useful part.

Part B

II. Answer any Six questions. Each question carries 2 weight (6x2=12)

11. Give a comparative desription of Apocynaceae and Asclepiadaceae.
12. Give an account on the pollination mechanism in Orchidaceae.
13. Discuss the economic importance of the family Rhamnaceae.
14. Enumerate the salient features of family Caryophyllaceae.
15. Describe the vegetative and reproductive characters of Aizoaceae.
16. Give botanical details and useful part of the following medicinal plants - Holybasil, Bel and Betel.
17. Explain the uses giving the binomial and family of Liquorice, Indian Sarasaparilla and Chitraka.
18. Giving the binomial, family and morphology of useful part, explain the uses of turmeric, mango ginger and garlic.

Part C

III. Answer any Two questions. Each question carries 5 weight (2x5=10)

19. Provide a comparative account on the classifications proposed by Linnaeus and Engler & Prantl.
20. Explain the role of cytology in angiosperm classification.
21. Give an account on the important Botanical gardens in India.
22. Write an account on the importance of economic botany. Give the medicinal importance of Asoka, Indian Aloe, Bel, Betel and Belleric.