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PG (Agriculture)
M.Sc. Semester- III Examination, 2023
AGRONOMY
PAPER: AGRON 508 (THEORY)
(AGRONOMY OF MEDICINAL, AROMATIC & UNDER-UTILIZED CROPS)
Full Marks: 50 **Time: 2 Hours**

The figures in the right-hand margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

GROUP-A

1. Answer any **FIVE** of the following questions: 2×5=10
- a) What do you understand by under-utilized crop?
 - b) What are the objectives of value addition?
 - c) Write down the importance of French bean cultivation.
 - d) What is staking?
 - e) What are the scientific names and family of citronella, basil, lathyrus and tea?
 - f) Define medicinal plants.
 - g) Name the species of *Dioscorea* are under cultivation for edible purpose and diosgenin production purpose.
 - h) What do you understand by minor forest produce?

GROUP-B

2. Answer any **FOUR** of the following questions: 5×4=20
- a) Explain constrains of tea and coffee production.
 - b) Discuss on flue cured tobacco. How *Cyperus rotundus* nuts are useful? 3+2
 - c) Write a short note on importance of aromatic plants in Indian scenario.
 - d) Explain different curing process of tea.
 - e) Write a short note on BOAA.
 - f) Describe the medicinal properties of *Rauwolfia* and *Opium*.
 - g) Discuss the uses of *Sesbania*/drumstick.
 - h) Describe the harvesting and processing of Isabgol.

GROUP-C

3. Answer any **TWO** of the following questions: 10×2=20
- a) Write importance and scope for cultivation of medicinal plants in India. 10
 - b) Explain benefits of rice bean in modern agriculture. Write down the different distillation process for essential oil extraction. 4+6
 - c) Write down the cultivation practices of citronella with reference to varieties, soil & climatic requirement and other cultural practices. 10
 - d) Write down the cultivation practices of rose. Classify mint. 7+3