

**MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE**  
**SEMESTER END THEORY EXAMINATION**

**B.Sc.(Hons.) Horticulture**

Semester	: V (New)	Term	: First	Academic Year	: 2023-24
Course No.	: H/MAP 351	Title	: Medicinal and Aromatic Crops		
Credits	: 3 (2+1)				
Day & Date	: Wednesday, 13.12.2023	Time	: 14:00 to 17:00 hrs.	Total Marks	: 80

- Note :
1. Solve ANY EIGHT questions from SECTION 'A'.
  2. All questions from SECTION 'B' are compulsory.
  3. All questions carry equal marks.
  4. Draw neat diagram wherever necessary.

**SECTION 'A'**

- Q.1 State the various medicinal uses of Rauvolfia and Withania.
- Q.2 What are the constraints in cultivation of medicinal and aromatic plants in India?
- Q.3 Describe in brief the cultivation practices of Dioscorea on the following points:
- a) Planting and Staking
  - b) Manures and Fertilizers
  - c) Harvesting and Yield
  - d) Important diseases and their control
- Q.4 Give cultivation practices of Wild Brinjal on the following points:
- a) Soil and Climate
  - b) Varieties
  - c) Propagation and Planting
  - d) Harvesting and Yield
- Q.5 Discuss in brief the cultivation of Lemon grass on the following points:
- a) Soil and Climate
  - b) Propagation and Planting
  - c) Varieties
  - d) Harvesting and Distillation
- Q.6 Write short notes on (Any Two):
- a) Medicinal uses of Isabgol
  - b) Harvesting and processing of Pyrethrum
  - c) Lancing and latex collection in Opium poppy
- Q.7 Define the term Essential oil. Enlist different methods of oil extraction and explain distillation method of oil extraction.
- Q.8 Narrate the importance and medicinal uses of Safed Musali and Belladonna.
- Q.9 Describe in brief the cultivation practices of Geranium on the following points:
- a) Soil and Climate
  - b) Propagation
  - c) Irrigation
  - d) Manures and Fertilizers
- Q.10 Describe in brief the cultivation practices of Sweet flag on the following points:
- a) Soil and Climate
  - b) Propagation and Planting
  - c) Manuring and Irrigation
  - d) Harvesting and Yield

(P.T.O.)

## SECTION 'B'

Q.11 Fill in the blanks:

- 1) The chemical constituents of Aonla fruits are \_\_\_\_\_.
- 2) The botanical name of Rosemary is \_\_\_\_\_.
- 3) The bark, stem and leaves of \_\_\_\_\_ plant prevents cancer cell growth.
- 4) The leaves, roots and stems of \_\_\_\_\_ aromatic plant are used for clarifying the sugarcane juice.
- 5) Patchouli belongs to family \_\_\_\_\_.
- 6) The chemical constituents of Panpimpali are \_\_\_\_\_.
- 7) The botanical name of Bibhitaki is \_\_\_\_\_.
- 8) The chief chemical constituents of Cinchona are \_\_\_\_\_.

Q.12 Match the pairs:

'A'

'B'

- |                  |                                   |
|------------------|-----------------------------------|
| 1) Japanese mint | a) Methyl chavicol                |
| 2) Occimum       | b) Kumarisav                      |
| 3) Lavender      | c) Cancer and leukemia treatments |
| 4) Aloe vera     | d) Chebulin                       |
| 5) Hirda         | e) Gastric stimulant              |
| 6) Periwinkle    | f) Mahapengeri                    |
| 7) Citronella    | g) Ajmalcine                      |
| 8) Simaruba      | h) Potpourri                      |

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