

Medicinal and Aromatic Crops (HPM-100)

Model paper 2015

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ID. No.

SEMESTER FINAL EXAMINATION 2015-16

COLLEGE OF HORTICULTURE

VCSG Uttarakhand University of Horticulture & Forestry, Bharsar-246 123

Pauri Garhwal, Uttarakhand

Programme: B.Sc. (Hons.) Horticulture (2nd Year)
Course Title: Medicinal and Aromatic Crops (HPM-100)
Credit Hours: 3 (2+1)
Max. Marks: 50.00 Marks

Roll No.
Date of Examination:
Time: 09:30am - 12:30pm (3 Hrs.)
Semester: Ist 2015-16

- Note: (i) All the questions are compulsory, cutting & over writing is not allowed.
(ii) The question paper consists of two parts, Part-I (objective) of 20.00 marks and the Part-II (subjective) of 30.00 marks.
(iii) Write the answer of Part-1 on the question paper itself.

PART-I, Objective (Max. Marks: 20.00)

Question No. 1: Fill in the blanks. (0.50 x 10.0=5.0 Marks)

- 1) The chief constituents of the oil of Geranium areand.....
- 2)is a family of *Rauvolfia serpentina*.
- 3) Vincristine sulphate is being marketed under the trade name ONCOVIN, which is used against.....
- 4) *Catharanthus roseus* is native of
- 5) Directorate of Medicinal and Aromatic Plants Research is situated at
- 6) AICRP on MAP & B is an abbreviation of.....
- 7) Centre for Aromatic Plants (CAP) is situated at
- 8) AYUSH stands for.....
- 9) IUCN stands for.....
- 10) 'Jhelum' is a variety of

Question No. 2: State whether the following statements True (T)/False (F)? (0.50 x 10.0=5.0 Marks)

- 1) *Picrorhiza kurroa* is hepatoprotective. ()
- 2) Paper Ebyrus is a scroll of Chinese Traditional System. ()
- 3) Charak Samhita is known as "Encyclopedia of Indian Medicine". ()
- 4) Imhotep is known a god of healing in Greek civilization. ()
- 5) *Dioscorea deltoidea* is endemic to western Himalaya. ()
- 6) Quinine protects the skin against sunburn. ()
- 7) *Dioscorea deltoidea* is an annual climber. ()
- 8) The entire produce (dried roots) of Ashwagandha is stored into 7 grades. ()
- 9) Sarpagandha can be propagated by seed only. ()
- 10) Geranium is a bushy, medicinal plant. ()

Question No. 3: Tick (√) the correct answer. (0.50 x 10.0=5.0 Marks)

- 1) Following is known as 'Father of Modern Medicine'.
a) Hippocrates b) Plinays c) Theophrastus d) Galen
- 2) For his contribution in medicine, he is known as "Father of Experimental Medicine".
a) Charak b) Pelletier c) Galen d) Al Razi
- 3) A commercial oil "Margosa" is derived from.....
a) Citronella b) Artemisia c) Neem d) Deodar
- 4) Biological source of 'Davana oil' is.....
a) Vetiver b) Lemongrass c) Artemisia d) None of these
- 5) Following is plant(s) of "Astaverga" of Ayurveda.
a) Meda and Mahaweda b) Kakoli c) Jeevak d) All of these
- 6) 'Aka Upkar' is a high yielding clone of.....
a) Geranium b) Cinchona c) Pyrethrum d) Isabgol

- 7) HRDI is situated in the district
- b) Pauri Garhwal b) U.S. Nagar c) Chamoli d) Tehri Garhwal
- 8) Family of *Picrorhiza kurrooa* is.....
- a) Apocynaceae b) Solanaceae c) Scrophulariaceae d) None of these
- 9) CITES protect endangered.....
- a) Plants b) Animals c) Plants and Animals d) Plants, Animals and Humans
- 10)is commonly known as 'winter cherry' and 'Indian Ginseng' . .
- a) Sarpagandha b) Long pepper c) Belladonna d) None of these

Question No. 4: Match the following.

(0.50 x 10.0=5.0 Marks)

- A. MAPs**
- a. Betelvine
b. Pyrethrum
c. Geranium
d. Lavender
e. Patchouli
- B. MAPs**
- a. Sarpagandha
b. Ocimum
c. Cinchona
d. Medicinal Yam
e. Isabgol

- Botanical Name**
1. *Piper betel*
2. *Chrysanthemum cinerariifolium*
3. *Pelargonium graveolens*
4. *Lavandula officinalis*
5. *Pogostemon cablin*
- Economic part**
1. Root
2. Leaf
3. Bark
4. Tuber
5. Seed

PART II, Subjective (Max. Marks: 30.00)

Question No. 5: Differentiate among the following (Attempt any three). **(2.50 x 3.0=7.5 Marks)**

- 1) Endangered and vulnerable species
- 2) Mode of propagation in periwinkle by seeds and vegetation
- 3) Area of occurrence and area of occupancy
- 4) Medicinal and Aromatic plants
- 5) Chemical composition & uses of Long pepper and Ashwagandha
- 6) Concrete and balsam

Question No. 6: Write short notes on any three. **(2.50 x 3.0=7.5 Marks)**

- 1) Critically endangered species
- 2) Any five (5) threatened species of India
- 3) Major aromatic crops in India
- 4) Chemical composition & uses of Belladonna
- 5) Grading of Ashwagandha
- 6) Propagation of Dioscorea

Question No. 7: Long type question (Attempt any three). **(5.0 x 3.0=15.0 Marks)**

- 1) Describe the cultivation of Geranium under the following heads
 1. Climate and soil
 2. Propagation techniques
 3. Nutrient management
 4. Harvesting and Yield
- 2) Explain the agro- techniques of Vetiver/Khus under the following heads.
 1. Soil and field preparation
 2. Improved varieties
 3. Nutrient management
 4. Harvesting and yield
- 3) Explain the agro- techniques of Periwinkle under the following heads.
 1. Soil and field preparation
 2. Improved varieties
 3. Nutrient management
 4. Harvesting and yield
- 4) Describe the cultivation of Ashwagandha under the following heads
 1. Climate and soil
 2. Propagation techniques
 3. Nutrient management
 4. Harvesting and Yield
- 5) Describe the cultivation of Ocimum under the following heads
 1. Climate and soil
 2. Propagation techniques
 3. Nutrient management
 4. Harvesting and Yield
- 6) Describe the prospectus, opportunities and constraints of MAPs in Uttarakhand.