



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)

उत्तराखण्ड मुक्त विश्वविद्यालय हल्द्वानी (नैनीताल)

Diploma in Management of Non-Wood Forest Products (DMNWFP-10)

1st SEMESTER ASSIGNMENT

Last Date of Submission: 15 January, 2012

Course Title: Medicinal and aromatic plants

Course Code: NWFP-02

Year: 2011-12 (Summer)

Maximum Marks: 20

Section 'A'

Section 'A' contains 08 short answer type questions of 2^{1/2} marks each. Learners are required to answer 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

Briefly discuss the following:

1. What do you understand by the concept of sustainability?
2. Write a note on the market potential of phytomedicines.
3. What are the reasons of wild collection of medicinal plants?
4. Write the names of 05 medicinal plants whose bark is used medicinally. Also write their uses and season of collection.
5. What is the difference between *ex-situ* and *in-situ* conservation? Explain by giving suitable examples.
6. Write a note on sustainable collection practices and also explain different methods of MAP collection from the wild.
7. What are the causes of depletion of wild population of medicinal plant species?
8. What are protected areas? Distinguish between Biosphere Reserves and National parks? How many protected areas are there in different categories in India?

Section 'B'

Section 'B' contains 04 long answer-type questions of 5 marks each. Learners are required to answers 02 questions only.

1. Study the given table and calculate density, frequency and abundance of the given species.

Species name	Plot No.									
	1	2	3	4	5	6	7	8	9	10
<i>Aconitum balfourii</i>	12	14	16	11	7	8	3	5	6	6
<i>Saussurea obvallata</i>	16	11	7	8	3	12	14	3	5	6
<i>Picrorhiza kurrooa</i>	14	16	11	7	8	7	8	3	12	14
<i>Potentilla atrosanguinea</i>	16	11	7	16	11	7	8	3	7	8
<i>Dactylorhiza spp.</i>	11	7	8	3	12	14	11	7	16	7
<i>Allium carolianum</i>	16	11	16	11	7	11	7	8	3	7

2. Which medicinal plants are exclusively collected from wild? What is their current market potential? Collect information from primary as well as secondary sources in detail.
3. What is the significance of herbarium preparation? Explain in detail about the process of preparation of herbarium specimens of medicinal and aromatic plants.
4. What are the national and international regulations on wild extraction, cultivation and trade? Write in detail.