

**UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)****उत्तराखण्ड मुक्त विश्वविद्यालय हल्द्वानी (नैनीताल)****M.Sc. Environmental Science (MSCEN-12)
1ST YEAR ASSIGNMENT****Last Date of Submission (जमा करने की अन्तिम तिथि):****Course Title: Ecology and Natural Resource Management
Year: 2012-13****Course Code: ES 502
Maximum Marks: 40****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.**

1. Explain the concept of ecological pyramids with suitable examples and diagrams.
2. What do you understand by Agenda 21? Discuss in brief.
3. Discuss food chain and its types in brief.
4. Differentiate between primary and secondary succession.
5. Discuss the concept of food security in brief.
6. What do you understand by renewable and non-renewable energy resources? Discuss in brief the renewable energy resources in India.
7. What do you understand by ecosystem services? Discuss in brief.
8. Explain how sacred grooves play role in biodiversity conservation. .

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

1. What do you understand by Red Data Book? Discuss IUCN Red Data Book in detail. Also explain the various IUCN categories of species.
2. What are the causes of biodiversity loss? Discuss in details the various efforts done at international level to conserve biological diversity.
3. What do you understand by the structure and function of an ecosystem? Discuss in detail with suitable diagrams.
4. What do you understand by afforestation and deforestation? Discuss the causes of deforestation in detail.