



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)
उत्तराखंड मुक्त विश्वविद्यालय, हल्द्वानी(नैनीताल)

M.Sc Environmental Science (MSCEN-12)

ASSIGNMENT- FIRST YEAR

Last Date of Submission: 15 May जमा करने की अन्तिम तिथि: 15 मई

Course Title: Environmental Remote sensing & GIS

Course code: ES 503

Year: 2013-14

Maximum Marks : 40

Section 'A'

भाग क

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answers 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 “sensors”? Describe types of sensing systems.
2. Describe spectral reflectance curves and draw the typical spectral reflectance curve for vegetation and soil.
3. Write a note on IRS series satellite.
4. Explain various digital image formats.
5. What are the major advantages and disadvantages of digital processing? Describe digital analysis.
6. Explain types of errors in GIS and the process of their rectification.
7. Describe the process to create the land use / land cover map.
8. Elaborate the role of RS in ground water studies.

Section 'B'

भाग ख

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.

1. Discuss Indian remote sensing programme and its major milestones.
2. What is visual image interpretation? Describe basic elements of image interpretation.
3. Explain the concept and components of GIS. What are its applications in environmental studies?
4. Write briefly about integration of RS, GIS and GPS.