



UTTRAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

**MASTER OF GEO INFORMATICS II YEAR
ASSIGNMENT**

Last Date of Submission: 15/05/2016

Course Title: Advance GIS & RS

Course Code: MGIS-07

Year: 2015-16

Maximum Marks: 40

Section 'A'

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answer 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

1. What is 3D GIS? What are the Advances of it?
2. What is Index models
3. What is NDSI Metadata?
4. Give brief introduction on open GIS programming languages?
5. What is Airborne LIDAR?
6. What is pixel purity index in processing of Hyperspectral imagery?
7. What do you mean by NDVI? Write NDVI formula for LISS-IV Satellite image.
8. What is the Differences between Hyperspectral and Multispectral Imaging?

Section 'B'

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

1. Explain the following Topics:
 - a. Histogram Equalization
 - b. High pass filters
 - c. Binary models

2. What is GIS models? Explain GIS model based on classification?
3. What do you mean by Synthetic Aperture Radar and SAR images?
4. Describe how does NSDI work?

