



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

**POST GRADUATE DIPLOMA IN GEO INFORMATICS
ASSIGNMENT**

Last Date of Submission: 15 May, 2012

Course Title: Geographic Information Systems

Course Code: PGDGIS-02

Year: 2011-12 (summer)

Maximum Marks: 40 Marks

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. Give Brief introduction on GIS Component
2. Explain the term 'map scale'.
3. Explain Vector data type.
4. Discuss non-spatial data
5. Brief Discuss on GIS Software
6. Explain different types of projections with the suitable diagram.
7. Discuss methods of data entry into GIS.
8. Explain GIS Modeling.

Section 'B'

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

1. Explain the applications of GIS in the following areas:
 - a. Agriculture
 - b. Forestry
 - c. Geology
 - d. Oceans
2. Discuss the components of TOPOSHEET.

3. Describe the concepts of Geoid, Datum, Spheroid, and Lat/Long.
4. Explain the terms Buffer, Clip, Union, Intersect and Erase features. Use appropriate diagram wherever required.

