



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

**MASTER OF GEO INFORMATICS
AND
POST GRADUATE DIPLOMA IN GEO INFORMATICS
ASSIGNMENT**

Last Date of Submission: 15/05/2016

Course Title: Geographic Information Systems

Course Code: MGIS-02

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. Define GIS. Describe the key components of GIS.
2. Explain the term 'map scale'.
3. Explain Vector data type.
4. What is Universal Transverse Mercator (UTM) projection?
5. Brief Discuss on Web GIS Software
6. Explain different types of projections with the suitable diagram.
7. Explain the terms Buffer, Clip, Union and Intersect.
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. Urban Planning

- b. Wild life management
 - c. Disaster management
 - d. Navigation
2. Discuss the components of TOPOSHEET.
3. Describe the concepts of Geographic coordinate system and projected coordinate system.
4. What do you understand by spatial data and attribute data? How are they integrated to make a GIS?

