

MPA-036

**Post Graduate Diploma in Disaster
Risk Reduction and Management
(PGDDRRM)**

ASSIGNMENT

For July 2026 & January 2027 Sessions

Course Code: MPA 036

GEOINFORMATICS IN DISASTER MANAGEMENT



**SCHOOL OF SOCIAL SCIENCES
INDIRA GANDHI NATIONAL OPEN UNIVERSITY
MAIDAN GARHI, NEW DELHI-110068**

Dear Student,

As we have informed you in the Programme Guide, evaluation at IGNOU consists of two parts: i) continuous evaluation through assignments, and ii) term-end examination. In the final result, assignments of a Course carry 30 percent weightage, while 70 percent weightage is given for term-end examination.

You will have to do a Tutor Marked Assignment (TMA) for a four-credit course. This course on Geoinformatics in Disaster Management (**MPA 036**) is a four-credit course. This Assignment has one TMA, whose total marks add upto 100, which carry a weightage of 30 per cent.

Before you attempt the assignments, please carefully read the instructions provided in the Programme Guide. It is important that you attempt all questions asked in the TMA, and write answers in your own words. Your answer should be within the approximate range of the word-limit set for a particular question. Remember, writing answers to assignment questions will improve your writing skills, and prepare you for the term-end examination.

As mentioned in the Programme Guide, you need to submit all the assignments within the stipulated time for being eligible to appear in the term-end examination.

Submission of the completed assignments:

Session	Last date of submission	Place of Submission
For July 2026 Session	31 st March 2027	Coordinator of the Study Center
For January 2027 Session	30 th September 2027	

You must obtain a receipt from the Study Centre for the submitted assignments and retain it. If possible, keep a xerox copy of the assignments with you.

The Study Centre will have to return the assignments to you, after they are evaluated. Please insist on this. The Study Centre has to send the marks to the Student Evaluation Division at IGNOU, New Delhi.

We expect you to answer each question as per guidelines mentioned in the assignment. You will find it useful to keep the following points in mind:

- 1) **Planning:** Read the assignments carefully, go through the Units on which they are based. Make some points regarding each question and then rearrange them in a logical order.
- 2) **Organisation:** Be a little selective and analytic before drawing up a rough outline of your answer. Give adequate attention to your introduction and conclusion.

Make sure that your answer:
 - a) Is logical and coherent;
 - b) Has clear connections between sentences and paragraphs; and
 - c) Is written correctly giving adequate consideration to your expression, style and presentation.
- 3) **Presentation:** Once you are satisfied with your answer, you can write down the final version for submission, writing each answer neatly and underlining the points you wish to emphasise. Make sure that the answer is within the stipulated word limit.

Wish you all the best!

**Prof. Durgesh Nandini
Programme Coordinator
Faculty of Public Administration
SoSS, IGNOU, New Delhi**

**MPA-036: GEOINFORMATICS IN DISASTER MANAGEMENT
(TMA)**

Course Code: MPA-036

Assignment Code: Asst/TMA/2026-27

Marks: 100

This assignment consists of Sections I and II. There are five questions in each Section. You have to answer all the questions, in about 400 words each. Each question carries 10 marks.

Section -I

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|---|----|
| 1) Explain the concept, advantages and limitations of remote sensing. | 10 |
| 2) What are the components of an image processing system? | 10 |
| 3) Describe the major steps in vector data analysis. | 10 |
| 4) “Disaster recovery consists of multifaceted activities”. Elaborate. | 10 |
| 5) Discuss the latest emerging trends and space applications in disaster risk management. | 10 |

Section – II

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| 6) Write a note on the open-source software. | 10 |
| 7) Discuss the role of cartographers in hazard mapping. | 10 |
| 8) Examine the impact of synthetic chemicals on the environment and human health. | 10 |
| 9) Discuss the issues and challenges in using geoinformatics in disaster management. | 10 |
| 10) How does a community participate in reconstruction and recovery? | 10 |