
DSCDM July - 2026

ASSIGNMENT BOOKLET

**Diploma in Smart City Development and Management
(DSCDM)**

Last date for submission:

30th April 2027

**School of Engineering and Technology
Indira Gandhi National Open University
Maidan Garhi, New Delhi - 110068**

Dear Student,

We advise you to go through your course material carefully and read all the units pertaining to assignments. A weightage of 30 per cent, as you are aware, has been earmarked for continuous evaluation which would **consist of one tutor-marked assignment** for each of MIO – 001, MIO – 002, MIO – 003, MIO – 004 and MIO – 005 of these courses. You need to score a minimum of 40 marks out of 100 marks in each of the assignments. **Submit the handwritten assignments at your Study Centre or your Regional Centre or Programme Coordinator, DSCDM, Room No.104, Block-C, SOET, IGNOU Campus, Maidan Garhi, New Delhi-68.**

Instructions for Formatting Your Assignments

Before attempting the assignment, please read the following instructions carefully.

1) On top of the first page of your TMA answer sheet, please write the details exactly in the following format:

ENROLMENT NO:

NAME:

ADDRESS:
.....

COURSE CODE:

COURSE TITLE:

ASSIGNMENT NO.:

STUDY CENTRE:

DATE:

PLEASE FOLLOW THE ABOVE FORMAT STRICTLY TO FACILITATE EVALUATION AND TO AVOID DELAY.

- 2) Use only full-size writing paper (but not of very thin variety) for writing your answers.
- 3) Leave 4 cm margin on the left, top and bottom of your answer sheet.
- 4) Your answers should be precise.
- 5) Only handwritten assignments acceptable. No typed assignments
- 6) While solving problems, clearly indicate the question number along with the part being solved. Be precise. Recheck your work before submitting it.

Answer sheets received after the due date shall not be accepted.

We strongly feel that you should retain a copy of your assignment response to avoid any unforeseen situation and append, if possible, a photocopy of this booklet with your response.

We wish you good luck.

Assignment -1
(To be done after studying the course material)

Course Code: MIO – 001
Course Title: Introduction to Smart Regions: Smart Cities and Smart Villages
Assignment Code: MIO – 001/TMA/2026 July
Maximum Marks: 100

Note:

1. Attempt all questions. All questions carry equal marks.

Q.1	Define a formal Region. Discuss the techniques employed to delineate a functional region?	10
Q. 2	a) Discuss the changing pattern of Indian Society?	5
	b) What are the different forms of markets? What are the essentials of a market?	5
Q. 3	What are the three pillars of sustainability? How many sustainable goals have been adopted by the UN General assembly for 2030?	10
Q. 4	What are the objectives of Smart City? Explain different layers of a Smart City.	10
Q. 5	What are the core principles of a Smart infrastructure? How can IoT helps in detecting water leakages?	10
Q. 6	a) Elaborate on the application of IoT in Smart Waste Management.	5
	b) What are the advantages of Intelligent Transportation Systems offer in a Smart City.	5
Q. 7	Define rural development. What are the various components of rural development?	10
Q. 8	Define Smart Villages? What are the main characters of Smart Villages? Why do we need Smart Villages in context of rural India?	10
Q. 9	What are the main problems with respect to provision of sanitation facilities in rural India?	10
Q. 10	a) What is Governance? What is its importance? Explain the role of Smart Cities in Governance.	5
	b) Define Public Policy. What are its characteristics? List out and explain the characteristics of Public Policy.	5