
DSCDM July - 2025

ASSIGNMENT BOOKLET

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

Last date for submission:

30th April 2026

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

Assignment -2
(To be done after studying the course material)

Course Code: MIO – 002
Course Title: Smart Technologies (Hardware and Software)
Assignment Code: MIO – 002/TMA/2025 July
Maximum Marks: 100

Attempt all questions. All questions carry equal marks.

Q. 1	How Internet of Things (IoT) is playing a key role in protecting the environment? Explain	10
Q. 2	What is Internet of Everything (IoE)? Discuss the applications of IoE in Supply Chain Management.	10
Q. 3	What do you understand by Smart Grid? Explain. Also compare existing grid with future grid.	10
Q. 4	Discuss the concept of Block Chain Technology. Explain the working of Blockchain Technology giving an example.	10
Q. 5	Discuss in detail, various applications and benefits of blockchain technology in financial sector with suitable examples.	10
Q. 6	What do you understand by Monte Carlo Tree Search? Explain.	10
Q. 7	Briefly describe the Iterative K-Means Clustering Algorithm? What is perceptron? Explain.	10
Q. 8	What are sensors and actuators? How do you classify sensors and Actuators? Discuss sensors and actuators applications in Smart Cities.	10
Q. 9	What is AI and ML? Explain the various applications of AI and ML in Healthcare Systems.	10
Q.10	What is SCADA? Discuss the Architecture of SCADA and Its applications.	10