

---

**CSCDM July - 2025**

**ASSIGNMENT BOOKLET**

**Certificate in Smart City Development and Management  
(CSCDM)**

**Last date for submission:**

**30th November 2025**

**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.**

---

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