DIPLOMA IN SMART CITY DEVELOPMENT AND MANAGEMENT/CERTIFICATE IN SMART CITY DEVELOPMENT AND MANAGEMENT (DSCDM/CSCDM)

Term-End Examination

June, 2025

MIO-002 : SMART TECHNOLOGIES

(HARDWARE AND SOFTWARE)

Time: 3 Hours Maximum Marks: 70

Note: Attempt any seven questions. All questions carry equal marks.

- How can IoT devices be used to monitor and track the data of any patient? Explain the complete process in detail.
- 2. Discuss the various benefits of ML technologies in IIoT. What potential benefits it can offer for optimizing industrial process and predicting equipment failures?
- 3. What are the potential applications of smart grid technologies for demand response and energy efficient management system?
- 4. What are the key components of a Blockchain system? List out the limitations and challenges of this system.
- 5. What is smart grid and its elements? How can Blockchain technology be used to improve supply chain management operations?
- 6. Discuss AI, ML and DL in brief and list out some real life examples where these technologies can be used.

D-3066/MIO-002

- 7. What are the applications of AI in the field of mobility and transportation?
- 8. What do you mean by sensors? How can the sensors be used in the development of the smart city?
- 9. How are Big Data Analytics helpful in improving urban planning and public services?
- 10. Explain SCADA architecture with a suitable block diagram.

