

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

Term-End Examination

June, 2026

**MIO-004 : SMART CITIES : HEALTH,
EDUCATION, GOVERNANCE AND
CYBER SECURITY**

Time : 3 Hours

Maximum Marks : 70

Note : (i) Answer any **seven** questions.

(ii) All questions carry equal marks.

1. (a) What is Urban Planning ? Explain it
with a suitable example. 5

- (b) What is the role of emerging technologies in the development of Smart Cities ? Explain briefly. 5
2. (a) Explain the working of security camera with the help of a block diagram. 5
- (b) What is the need of security camera ? What are the differences between wireless and wired security camera ? 5
3. (a) Why is digital health care required particularly in developing countries ? 5
- (b) What are the characteristics and requirements of smart health care system ? 5
4. (a) Discuss the functions of robotics in the digital transformations of organizations. 5
- (b) Differentiate between functional and non-functional requirements in a Smart Health Care System. 5

5. (a) Discuss the various services and benefits of e-Health and m-Health. 5
- (b) What are the uses of Natural Language Processing (NLP) in health care systems ? Explain briefly. 5
6. (a) Why do you need electronic records management ? List out the various benefits of electronic records management. 5
- (b) How the body sensor network functions ? List out the various applications of body sensor network systems. 5
7. (a) What is Human-Computer Interaction (HCI) ? What are the goals of Human Computer Interaction ? 5
- (b) What is Nanomedicine ? How is it been used ? 5
8. (a) How does the Smart Education differ from Traditional Education ? What are the technologies used in Smart Education ? 5

- (b) Discuss the various schemes present in National Education Policy (NEP-2020) for Smart Education. 5
9. (a) What are the different cyber crimes that are affecting Smart Governance ? 5
- (b) What do you understand by Smart Factory ? How does a smart factory differ from a traditional factory ? Explain. 5
10. Write short notes on any *two* of the following : 2×5=10
- (a) Cyber Space
- (b) Artificial Intelligence
- (c) Cyber Crime Techniques
- (d) Web-based Learning

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