

**DIPLOMA IN SMART CITY DEVELOPMENT
AND MANAGEMENT (DSCDM)**

Term-End Examination

December, 2022

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

Time : 3 hours

Maximum Marks : 70

Note : Answer any **seven** questions. All questions carry equal marks.

1. (a) Differentiate between Traditional and Smart Buildings. Explain any five smart building services. 5
- (b) Discuss any five key challenges of smart cities. 5
2. (a) What are digital command and control centres ? How can integration of command and control centres help in city management during a pandemic ? 5
- (b) Write any five advantages and disadvantages of a smart building. 5

- 3.** (a) What is the need of emerging technologies in smart health care systems ? Explain. 5
- (b) Explain the Robotic Process Automation, with a suitable example. 5
- 4.** (a) Explain any five characteristics of a smart health care system. 5
- (b) Explain individual privacy in smart health. What are the issues and opportunities in smart health ? 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) What are Home Health Platforms and Smart Home Services ? Explain. 5
- (b) How does a Smart Home work ? What are the various functions of a Smart Home ? 5
- 7.** (a) What is Nanomedicine ? How does Nanomedicine work ? 5
- (b) What are the various initiatives of Government of India in smart health care ? 5

8. (a) Discuss the various opportunities and challenges of online education. 5
- (b) Describe the importance of Smart Education. Discuss the various schemes present in National Education Policy (NEP – 2020) for Smart Education. 5
9. (a) Define cyber space. Explain the common cyber crime techniques briefly. 5
- (b) What do you understand by smart factory ? How does a smart factory differ from a traditional factory ? Explain briefly. 5
10. Write short notes on any **two** of the following : $2 \times 5 = 10$
- (a) e-Governance
- (b) IT Act
- (c) Machine Learning
- (d) Emerging Educational Technologies
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