No. of Printed Pages : 4

MIO–004

DIPLOMA IN SMART CITY DEVELOPMENT AND MANAGEMENT (DSCDM)

Term-End Examination

June, 2025

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) Discuss the importance of urban planning. Explain different ways of smart cities development. 5

(b) What are the challenges ahead while developing smart city ? Discuss. 5

2. (a) What is a security camera ? What are the differences between wireless and wired security camera ? 5

(b) List out the advantages and disadvantages of smart building. 5

3. (a) Explain the working of security camera with block diagram. 5

(b) Explain the role of robotics for digital transformations in urban existence. 5

4. (a) What are the characteristics and requirements of smart healthcare system ? Explain briefly. 5

(b) What are the emerging technologies used in smart healthcare systems ? Explain any *two* with a suitable example. 5

5. (a) Explain individual privacy in smart health. What are the issues and opportunities in smart health ? 5

(b) Differentiate between telemedicine and cyber medicine. 5

6. (a) How will the body sensor network work ? List out the various applications of body sensor network systems. 5

(b) What is Blockchain Technology ? How can it be applied in Smart Education ? 5

7. (a) Why is Bonet used as a counsellor in healthcare system ? What are the various benefits of Bonet being used as counsellor ? 5

(b) What are the various challenges in imparting Smart Education ? Explain briefly. 5

8. (a) Define cyber space. Explain the common cyber crime techniques. 5

(b) Describe the importance of Smart Education. Discuss the various schemes present in National Education Policy (NEP, 2020) for Smart Education. 5

9. Write short notes on any *two* of the following : 5+5

   (a) Machine Learning

   (b) Internet of Things (IoT)

   (c) Electronic Records Management

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