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MIO-004

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

Term-End Examination

June, 2022

**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) Discuss the importance of urban planning.
Explain different ways of smart cities
development. 5
- (b) What is the role of emerging technologies
in the development of smart cities ?
Explain briefly. 5
2. (a) What is a security camera ? What are the
differences between wireless and wired
security camera ? 5

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- (b) Explain the working of security camera with block diagram. 5
3. (a) Explain the role of robotics for digital transformations in urban existence. 5
- (b) How do you integrate command and control centers in smart city ? 5
4. (a) What are the emerging technologies used in smart health care systems ? Explain any *two* with a suitable example. 5
- (b) What is precision health and how is it benefiting us ? 5
5. (a) What are the wearable medical devices used in smart health care systems ? List out the benefits of those devices. 5
- (b) Differentiate between telemedicine and cyber medicine. 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) Why Bonet used as a counsellor in health care system ? What are the various benefits of Bonet using s counsellor ? 5

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- (b) What is Tele-Nursing ? How can tele-robot used as a nurse ? Explain. 5
8. (a) What is a smart education system ? Explain the different medium used in smart education. 5
- (b) What is an educational technology ? Write and explain any *two* emerging educational technologies. 5
9. (a) What are the emerging trends in cyber security ? What are outdated system becoming easy targets for hackers ? 5
- (b) How capacity building is a challenge in smart governance process ? Explain. 5
10. Write short notes on any *two* of the following :
2×5=10
- (a) Smart factory
- (b) Cyber crime techniques
- (c) Artificial Intelligence
- (d) Hardware Trojan