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MIO-002

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

Term-End Examination

June, 2024

**MIO-002 : SMART TECHNOLOGIES (HARDWARE
AND SOFTWARE)**

Time : 3 Hours

Maximum Marks : 70

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

1. What is IOT ? Explain the role of IOT in a smart city with a suitable example. 10
2. What is Internet of Everything (IOE) ? Explain Industry G. O. over a traditional industry with a suitable example. 10
3. What do you understand by 'Smart City' ? Write and explain the software and hardware components used in a Smart City. 10

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4. How does blockchain technology work ? Explain with a suitable example. 10
5. Discuss the applications of blockchain technology in the education sector, with a suitable example. 10
6. What is 'Supply Chain Management ? How blockchain technology can help in 'Compliance with Standards' in the supply chain ? 10
7. What is AI ? Explain AI application being used in Smart City with a suitable example. 10
8. Define a sensor. Classify different types of sensors, used in a Smart City. 10
9. What is big data analytics ? Discuss big data analytics in the context of a Smart City. 10
10. Write short notes on any *two* the following : 5+5
 - (a) Self Driving Cars
 - (b) Smart Grid
 - (c) Cyber security in Smart City

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