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MIO-001

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

Term-End Examination

December, 2023

**MIO-001 : INTRODUCTION TO SMART REGIONS :
SMART CITIES AND SMART VILLAGES**

Time : 3 Hours

Maximum Marks : 70

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

1. Explain in detail about Urban Settlements and Rural Settlement by giving suitable examples. 10
2. What do you understand about community participation in city planning ? Describe the different types of community participation. 10
3. (a) What is the meaning of resilience ? Discuss the condition when a city is called as resilient city. 5
(b) What are the different characteristics and benefits of resilient cities ? 5

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4. What are the objectives of smart city ? Explain the steps towards development of a smart city. 10
5. What is Survey ? Why do we do a survey ? Explain the different types of surveys. 10
6. What is Smart Infrastructure financing ? What are the different funding models for smart infrastructure ? Explain. 10
7. What is smart waste management ? Explain the role of IOT and AI in smart waste management system. 10
8. (a) What role does sustainability contribute the development of smart villages ? 5
(b) What role does innovation play in developing smart villages ? 5
9. (a) Name few challenges in water management. 5
(b) Discuss about watershed management in brief. 5
10. Explain the following Acts for smart cities : 2×5=10
 - (a) The Information Technology Act
 - (b) E-Governance Act