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Question Paper Code: 97103

B.E./B.Tech. DEGREE EXAMINATION, NOV 2023

Seventh Semester

Civil Engineering

19UCE703 – SMART CITY TECHNOLOGIES

(Regulations 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. Where are smart cities developing the fastest? CO1- U
(a) Europe (b) North America (c) Gulf Region (d) South Asia
2. Sustainable building means C03-Ana
(a) Green building (b) Environmental building
(c) Both A and B (d) None of above
3. Sustainable Development focuses on more use of: CO1- U
(a) Renewable resources (b) Abiotic resources
(c) Natural Resources (d) None of the above
4. Which of the following city got first Smart City nomination? CO1- U
(a) Hubballi-Dharwad (b) Surat (c) Pune (d) Puducherry
5. The core element of architecture of smart city is _____ CO1- U
(a) Mobile Unified Service (b) Urban Application Platform
(c) Management center (d) Integrated Information Provider

PART – B (5 x 3 = 15 Marks)

6. Classify the benefits of smart cities. CO1- U
7. Examine the pollution prevention in smart cities CO2- App
8. What is meant by Traffic Management? CO1- U
9. What is meant by waste management system? CO1- U
10. Discuss in detail about commercialization CO1- U

PART – C (5 x 16= 80 Marks)

11. (a) How to analysis Feasibility of smart cities and what are the steps involved in Smart city construction? CO3- App
Or
(b) While planning smart city elaborate the planning standards to be followed with suitable examples CO3- App
12. (a) Explain in detail about Environmental energy management system. CO2- App
Or
(b) Examine all the factors involved in climatic condition in detail. CO2- App
13. (a) How to implement IOT in smart transportation CO2- App
Or
(b) How does digitalization fit into the wider transport policy? CO2- App
- 14 (a) Discuss the importance of decentralization in waste management CO2- App
Or
(b) Explain the five R approaches in resource conservation CO2- App
- 15 (a) Describe the project organizational structures of the Madurai smart city project CO1- U
Or
(b) Explain in detail about the need for the project management and analysis the risk factor CO1- U