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Question Paper Code: 95302

B.E./B.Tech. DEGREE EXAMINATION, NOV 2024

Seventh Semester

Civil Engineering

19UCE703 – Smart City Technologies

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (5 x 1 = 5 Marks)

1. What is the projected global market for smart city technology? CO1- U
(a) \$1.34 trillion by 2024 (b) \$3 trillion by 2024
(c) \$987 billion by 2024 (d) \$2.57 trillion by 2024
2. How many mega schemes for revamping urban India will be launched by the PM Narendra Modi on 25th June'15? CO1- U
(a) 1 (b) 2 (c) 3 (d) 4
3. Smart city award 2019 in Safe City category was given to _____ CO1- U
(a) Ahmedabad (b) Agra (c) Aurangabad (d) Patna
4. The IoT platforms are mainly divided into how many types CO1- U
(a) 3 types (b) 5 types (c) 4 types (d) 2 types
5. of participants believed the benefits of their smart devices were more important to them than their personal privacy in smart cities. CO1- U
(a) 10 % (b) 20 % (c) 30 % (d) 40 %

PART – B (5 x 3= 15Marks)

6. Classify the benefits of smart cities. CO1- U
7. Define energy efficient building CO1- U
8. Define traffic management system CO1- U
9. List the few waste collection techniques in your area CO1- U
10. Define the concept of e management 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 (16)
Or
(b) While planning smart city elaborate the planning standards to be followed with suitable examples CO3-App (16)
12. (a) Examine all the factors involved in climatic condition in detail. CO2-App (16)
Or
(b) Analyze in detail about the emerging efficient design strategies in smart buildings with suitable examples? CO3-Ana (16)
13. (a) Apply the intelligent transportation and smart mobility for your new planned city? CO1-U (16)
Or
(b) Compare IOT and assessment in traffic management system? CO2-App (16)
14. (a) Write an account on the history of Waste Management CO2-App (16)
Or
(b) How technological advancements have led to increased waste generation? CO3- App (16)
15. (a) Explain in detail about principle and concepts of e-governance CO2- App (16)
Or
(b) Design and development strategy for e governance CO3- App (16)

