Question Paper Code: 97103

B.E./B.Tech. DEGREE EXAMINATION, NOV 2022

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. 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   CO1- U
    PM Narendra Modi on 25th June'15?

    (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   CO1- U
    were more important to them than their personal privacy in smart cities.

    (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)

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