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Question Paper Code: 59230

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2020

Elective

Civil Engineering

15UCE930– SMART CITIES

(Regulation 2015)

Duration: 1.15 hrs

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any six of the following questions)

- Which of the following is not a standing plan? CO1- R
(a) Policy (b) Procedure (c) Programme (d) Rule
- Role of civil engineering is a _____ CO1- R
(a) Good transportation facilities (b) Well planned water supply
(c) Good infrastructure (d) All of the above
- Smart life' poles is used in _____ CO2-R
(a) Plain terrain (b) Local road
(c) Highly risky mountain roads and highway (d) None of the above
- What is the projected global market for smart city technology? CO2- R
(a) \$987 billion by 2024 (b) \$2.57 trillion by 2024
(c) \$3 trillion by 2024 (d) \$1.34 trillion by 2024
- When was the term 'Sustainable Development' came into existence? CO3- R
(a) 1987 (b)1980 (c) 1978 (d) 1998
- Electronic waste is the adverse effect of CO3- R
(a) Industry (b) Agriculture (c) Housing (d) Mining
- Choose the urban development projects out of these CO4- R
(a) Physical (b) Data link (c) Network (d) Application
- Which Indian fin-tech company has recently launched a point-of-sale (POS) device for smaller merchants? CO4- R
(a) Phone Pe (b) Paytm (c) Mobikwik (d) Bharat Pe

9. The Smart City Mission was launched on CO5- U
(a) June 25, 2015 (b) Dec 12, 2002 (c) Jan 26, 2010 (d) None of the above
10. Which of the following States/UTs do not have even one city in the two CO5- U
rounds of the Smart City Challenge?
(a) Uttarakhand (b) Lakshadweep (c) Puducherry (d) All of the above

PART – B (3 x 8= 24 Marks)

(Answer any three of the following questions)

11. Give an outline about the technologies involved in smart cities. CO1- U (8)
12. Explain in detail about Sustainable development in smart cities. CO2- U (8)
13. Explain in detail about the smart building and benefits of smart building. CO3- U (8)
14. Brief about remote sensing approach to smart city development in India. CO4- U (8)
15. Write about the key role of ICT in smart city projects. CO5- C (8)