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Reg. No. :					
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Question Paper Code: U1504

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

Professional Elective

Civil Engineering

21CEV504 SMART CITY TECHNOLOGIES

		(Regulatio	ons 2021)			
Dura	ation: Three hours		Ma	ximum: 100	Marks	
		Answer ALL	Questions			
		PART A - (5 x	1 = 5 Marks)			
1.	Where are smart cities	s developing the fastes	t?	CO1 U		
	(a) Europe	(b) North America	(c) Gulf Region	(d) South Asia		
2.	Which city tops list of Urban Development?	f 27 new smart cities an	nnounced by Ministry of		CO1- U	
	(a) Amritsar	(b) Ajmer	(c) Madurai	(d) Varana	ısi	
3.	Which of the following	ng city got first Smart C	City nomination?		C01-U	
	(a) Hubballi Dharwa	(b) Surat	(c) Pune	(d) Puduch	nerry	
4.		Aug'15. Which state go	towns to be developed as ets the maximum number		CO1- U	
	a) Maharashtra	b) Tamil Nadu	(c) Uttar Pradesh	(d) Pradesh	Madhya	
5.	of participants believed the benefits of their smart devices 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.	Describe the low carbon energy technology				CO1- U	

8.	Wha	at are Intelligent Transport Systems?	CO1- U	
9.	Giv	e the example for smart water system adopted in your city	CO2-App	
10.	Disc	cuss in detail about commercialization	CO1- U	
11.	(a)	How to analysis Feasibility of smart cities and what are the steps involved in Smart city construction?	CO2-App	(16)
		Or		
	(b)	Examine the various dimensions of Smart City in detail.	CO2-App	(16)
12.	(a)	Explain in detail about Environmental energy management system.	CO2-App	(16)
		Or		
	(b)	Compare the advantages and disadvantages of energy efficient designs in a Building located in your native city	CO2-App	(16)
13.	(a)	Explain in details the Intelligent Transport Systems? Or	CO2-App	(16)
	(b)	Detailed explanations are needed on how smart planning works for smart cities	CO2-App	(16)
14.	(a)	How technological advancements have led to increased waste generation?	CO2-App	(16)
	(b)	Or Discuss the importance of decentralization in waste management	CO2-App	(16)
	(0)	2 22 200 May importanted of accommunication in music management		(10)
15.	(a)	Discuss and the process of Metropolitan committee Or	CO2-App	(16)
	(b)	Explain in detail about principle and concepts of e-governance	CO2-App	(16)