Reg. No.:	
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Question Paper Code: U1504S

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

Professional Elective

Civil Engineering

21CEV504-SMART CITY TECHNOLOGIES

		21CE V 304-3NL	ARI CILI IECHN	OLOGIES		
		(Re	egulations 2021)			
Duration: Three hours			Maximum: 1	00 Marks		
		Ansv	wer All Questions			
		PART –	$A (5 \times 1 = 5 \text{ Marks})$)		
1.	Which city tops l Development?	ist of 27 new smart	cities announced by	Ministry of Urban	CO1-U	
	(a) Amritsar	(b) Ajmer	(c) Madurai	(d) Va	(d) Varanasi	
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 is an urban renewal and retrofitting program by the Government of India with the mission to develop smart cities across the country, making them citizen friendly and sustainable.						
(a) National Smart Cities Mission (b) National				Digital Centre Mission		
	(c)Trade Mission		(d) All the a	above		
4.		The total number of smart cities have been distributed among the States CO1 and UTs on the basis of an equitable criteria.				
	(a)50	(b) 75	(c) 100	(d) 12	5	
5.		s based ne corresponding en	•	re used for internal	CO3-Ana	
	(a) eGovernment	related	(b) Enterpri	se-based		
	(c) Company bas	ed	(d) Business	s oriented platform		

$PART - B (5 \times 3 = 15 \text{ Marks})$

6.	What are the technologies involved in smart cities			2-App	
7.	How to implement the renewable energy technologies in smart cities			1-U	
8.	Compare IOT and assessment in traffic management system?			CO3-Ana	
9.	Give the example for smart water system adopted in your city			CO2-App	
10.	Disc	Discuss the Emerging trends involved in smart cities CO2-A			
11.	(a)	PART – C (5 x 16= 80 Marks) How to analysis Feasibility of smart cities and what are the steps involved in Smart city construction? Or	CO2-App	(16)	
12.	(b) (a)	Explain India 100 smart cities policy and mission. Analyze in detail about the emerging efficient design strategies in smart buildings with suitable examples? Or	CO2-App CO3-Ana	(16) (16)	
13.	(b) (a)	Compare all the emerging trends & technologies of smart buildings in India with suitable examples. As a engineer, how do you develop the Traffic management system in your locality.		(16)(16)	
	(b)	Or Apply the intelligent transportation and smart mobility for your new planned city?	CO4-App	(16)	
14.	(a)	How technological advancements have led to increased waste generation?	CO4-App	(16)	
	(b)	Or What are smart water quality meters adopted in your area? Explain with suitable example.	CO4-App	(16)	
15.	(a)	Discuss and the process of Metropolitan committee Or	CO2-App	(16)	
	(b)	Describe the project organizational structures of the Madurai smart city project	CO2-App	(16)	