Reg. No.:												
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Question Paper Code: U9178

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

Open elective

Civil Engineering

21UCE978 ENVIRONMENTAL SCIENCE AND ENGINEERING

(Common to All branches)

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(Regulations 2021)							
Dura	ation: Three hours	Maximum: 100	Marks				
		Answer All	Questions				
$PART - A (5 \times 1 = 5Marks)$							
1.	The World Environment		CO1-U				
	(a) 6 th June	(b) 5 th June	(c) 6 th July	(d) 5 th July			
2.	The average value of soi		CO1-U				
	(a) 2.65 mg/l	(b) 3mg/l	(c) 2.5 mg/l	(d) 3.5 mg/l			
3.	Inhalation of carbon mor		CO1-U				
	(a) carboxyhame globin	(b) chlorosis	(d) all of these				
4.	Which series represent the	anagement standards?		CO1-U			
	(a) ISO 9001	(b) ISO 50001	(c) ISO 14001	(d) ISO 4000	1		
5.	Shifting of people from		CO1-U				
	(a) Rehabilitation (b)	Shifting	(c) Mitigation	(d) Resettlem	ent		
		PART - B (5 x	3= 15 Marks)				
6.	What are the important of		CO1-U				
7.	What is soil pollution?		CO1-U				
8.	Relate the effects of ozo		CO1-U				
9.	Mention 3R concept in v		CO1-U				
10.	Why is EIA essential for		CO1-U				

		PART - C (5 x 16= 80 Marks)		
11.	(a)	Discuss in detail about nitrogen cycle and carbon cycle.	CO1-U	(16)
		Or		
	(b)	Discuss about 3R concept in waste management	CO1-U	(16)
12.	(a)	Explain about physical and chemical properties of water. Or	CO1-U	(16)
	(b)	Discuss about global warming and ozone depletion with its impacts.	CO1-U	(16)
13.	(a)	Summarize the major environmental problems that you come across in your daily life.	CO1-U	(16)
		Or		
	(b)	With a neat sketch, explain landfill process of waste management.	CO1-U	(16)
14.	(a)	Explain about (i) Biodiesel	CO1-U	(16)
		(ii) Fuel cells.		
	(1.)	Or	CO1 II	(1.6)
	(b)	Give a detailed outline about classifications E-Waste?	CO1-U	(16)
15.	(a)	Discuss about community participation in environmental management.	CO1-U	(16)
		Or		

(b) List out the objectives of environmental protection act.

(16)

CO1-U