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School of Engineering

Mid - Term Examinations - November 2024

Semester: 5th Date: 04-11-2024

Course Code: CIV2001 **Time**: 02:00pm - 03:30pm

Course Name: Sustainability Concepts in Engineering Max Marks: 50

Program: B. Tech Weightage: 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.			5Qx2M=10M			
1	Define sustainability in ensuring the long-term health of ecosystems and human life.	2 Marks	L1	CO1		
2	Sustainable energy is the energy that, in its production or consumption, has minimal negative impacts on human health. What is MEA?	2 Marks	L1	CO1		
3	Define Kyoto protocol in combating climate change.	2 Marks	L1	CO1		
4	List the causes that contribute to environmental degradation	2 Marks	L1	CO2		
5	Define carbon sequestration in mitigating climate change.	2 Marks	L1	CO2		

	Part B				
Answer	ALL Questions. Each question carries 10 marks.	4QX10M=40M			
6	Explain the most critical needs and priorities to ensure sustainability in various sectors like energy, water, agriculture, and industry.	10 Marks	L2	CO1	

7	Elaborate on the Economic-Social-Environmental Matrix for essential resources like food, water, and energy.	10 Marks	L2	CO1			
8	List any 6 Sustainable Development Goals (SDGs) and explain any four in detail, focusing on their targets.	10 Marks	L2	CO1			
or							
9	Explain the objectives and salient features of the Air Act and how it regulates air quality.	10 Marks	L2	CO1			
10	Explain the difference between resource degradation and environmental degradation. Provide examples of each.	10 Marks	L2	CO2			
	or						
11	List and explain any two effects of Environmental Degradation.	10 Marks	L2	CO2			
12	Compare mitigation and adaptation strategies in responding to climate change. Provide examples of each.	10 Marks	L2	CO2			
or							
13	What is a carbon footprint? Discuss the main contributors to an individual's carbon footprint and explain ways individuals can reduce their carbon footprint through lifestyle changes.	10 Marks	L2	CO2			