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Question Paper Code 12206

B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023

Seventh Semester

Civil Engineering

20CYOE907 - GREEN TECHNOLOGY

(Regulations2020)

Duration: 3 Hours Max. Marks: 100

PART-A $(10 \times 2 = 20 \text{ Marks})$

Answer ALL Questions

1.	De	fine green technology.	Marks, K-Level, CO 2,K1,CO1			
2.		at is a 3R concept?	2,K1,CO1			
3.	Co	mment on environment feasibility analysis.	2,K2,CO2			
4.	What is ISO 14000 cover?					
5.	How carbon trading useful in environment protection?					
6.	What is Eco-labelling? Give examples.					
7.	Give examples for conventional energy resources.					
8.	Define solar energy.					
9.	What are conventional fossil fuels? Examples.					
10.	Illu	strate on geothermal energy.	2,K1,CO5			
11	9)	PART - B (5 × 13 = 65 Marks) Answer ALL Questions Explain the role of industrial goology in groon technology	13,K1,CO1			
11.	a)	Explain the role of industrial ecology in green technology.	13,K1,CO1			
	1 \	OR	13,K2,CO1			
	b)	Write about instructions of operations and operands in detail.	13,K2,CO1			
12.	a)	Give a detail account on cleaner production assessment with flow diagram.	13,K2,CO2			
		OR				
	b)	Write a short note on cleaner production financing with pros and cons.	13,K2,CO2			
13.	a)	Explain in detail about awareness plan related to waste in environment.	13,K2,CO3			
		OR				
	b)	Discuss in detail about life cycle assessment in carbon credit and sequestration.	13,K2,CO3			

14. a) Analyze the future possibilities of energy need and availability in non- 13,K2,CO4 conventional energy sources.

OR

- b) Give a brief note on Solar energy conversion technologies and devices. 13,K2,CO4
- 15. a) What is Biomass energy? Explain the concept of biomass energy 13,K2,CO5 utilization.

OR

b) Enumerate in detail about wind energy with neat sketch.

13,K2,CO5

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Summarize the role of industrial ecology in green technology. 15,K6,CO5

b) Evaluate energy conversion technologies, their principles, equipment 15,K5,CO5 and suitability in Indian context with tidal and geothermal energy.