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Reg No.		COLLEGE
		OUCATIONAL
3.Tech De	gree S3(S,FE)/S3(PT)(S) June 2024 (2019 Scheme)/S3(WP) (R) December 20	23 Examina
	10)	X8.
		EAD KINDLY LIS
	Course Code: MCN201	ERUTHURU
	Course Name: Sustainable Engineering	
Max. N	Marks: 100 Dura PART A	tion: 3 Hours
	Answer all questions. Each question carries 3 marks	Marks
1	What is meant by sustainable development?	3
2	What is the purpose of clean development mechanism?	3
3	Explain carbon trading	3
4	Write notes on zero waste concept	3
5	Explain the term biomimicry	3
6	What is industrial symbiosis?	3
7	Differentiate between conventional and non conventional sources of energy	3
. 8	List the methods of extracting energy from oceans	3
9	Define green engineering	3
10	What is a sustainable city?	3
	PART B	
	Answer any one full question from each module. Each question carries 14 i	narks
	Module 1	
11	Explain the need and concept of sustainability	14
12	a. What are the measures of sustainable development? – 7marks	14
	b. What are the challenges to sustainable development? - 7 marks	
	Module 2	
13	Explain the various causes of water pollution and the methods to reduce the s	
14	a. Write notes on global warming - 8 marks	. 14
	b. Explain climate change, its effects and control measures - 6 mar	ks
	Module 3	

Write notes on environmental management system and standards

16 Explain environment impact assessment

## 0800MCN201122102

## Module 4

17	a. Write a note on fuel cells – 7 marks	14
	b. Write notes on bio fuels – 7 marks	
18	How geothermal energy can be captured?	14
	Module 5	
19	a. Explain the basic concepts of sustainable habitat - 5 marks	14
	b. Explain the methods for increasing energy efficiency in buildings	
	- 9 marks	
20	Write notes on sustainable urbanisation	14