

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV /DEC 2024

Third Semester

Environmental Engineering

CX4016 - Environmental Sustainability

(Common to Product Design and Development)

Regulations - 2021

Duration : 3 Hrs

Maximum : 100 Marks

PART - A (ANSWER ALL QUESTIONS) (Marks 10*2=20)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
1.	What are the different types of environmental value?	RE	1	2
2.	Write the externalities of environmental issues.	RE	1	2
3.	What is population explosion?	RE	2	2
4.	How population density is calculated?	RE	2	2
5.	List out the effect of habitat loss on biodiversity.	AP	3	2
6.	What is meant by automobile pollution?	RE	3	2
7.	List out the toxic substances.	AP	4	2
8.	What is meant by global warming?	RE	4	2
9.	What is value education?	RE	5	2
10.	Write about environmental impact analysis.	RE	5	2

PART - B (ANSWER ALL QUESTIONS) (Marks 5*13 = 65)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Explain in brief about the different methods for measuring environmental quality?	UN	1	13
	Or			
	b i Enumerate the role do property rights play in protecting the environment.	UN	1	7
	ii How do externalities cause environmental problems? Give Example.	UN	1	6
12.	a i What do you mean by sustainable development and how will you attain the sustainability?	AP	2	7
	ii Discuss the factors influencing family size.	AP	2	6
	Or			
	b Draw a typical population pyramid of a developing country and discuss how it is likely to differ from that of a developed country.	AP	2	13

13.	a i	What are hotspots of biodiversity? Which are the hotspots found in India?	AN	3	7
	ii	List out the pollutants, and their sources, and effects.	AN	3	6
Or					
	b i	Explain the mechanism of formation of acid rain.	UN	3	6
	ii	Describe the characteristic features of Forest ecosystem.	UN	3	7
14.	a i	Explain the causes, effects and control measure of water pollution.	AP	4	8
	ii	Write brief notes on solid waste management.	AP	4	5
Or					
	b i	Discuss about the significance of hazardous waste.	AP	4	7
	ii	Describe the major impacts and responses to global warming.	AP	4	6
15.	a i	Explain the importance of environmental economics and policy.	UN	5	7
	ii	Write notes on poverty and environment.	UN	5	6
Or					
	b i	Briefly explain environmental regulation and its importance.	UN	5	7
	ii	Explain about environment and development.	UN	5	6

*PART – C (Marks 1*15 = 15)*

<i>Q.No</i>	<i>Questions</i>		<i>BLT</i>	<i>CO</i>	<i>Marks</i>
16.	a i	Explain the national initiatives to reduce global environmental issue.	UN	5	8
	ii	Define the causes of population problem.	UN	2	7
Or					
b	Identify and explain the present day major threats to the biodiversity of India. Explain the major in-situ strategies of conservation of biodiversity.		UN	4	15