

THE KAVERY ENGINEERING COLLEGE
(An Autonomous Institution)

M.E DEGREE END SEMESTER THEORY EXAMINATIONS, APRIL-MAY 2025

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.	How do positive externalities benefit the environment? Give an example.	L1	1	2
2.	Outline the property rights approach to the environmental problem.	L2	1	2
3.	Give the brief discussion on consequences of the noise pollution.	L1	2	2
4.	Name the six concepts of sustainability.	L1	2	2
5.	List about the benefits of biodiversity.	L1	3	2
6.	How does the atmosphere affect acid rain?	L1	3	2
7.	What is the impact of global warming?	L1	4	2
8.	Where Does Toxic and Hazardous Waste Come From?	L1	4	2
9.	What Is the Difference between Environmental Economics and Ecological Economics?	L1	5	2
10.	Why is environmental economics important?	L1	5	2

PART – B (ANSWER ALL QUESTIONS) (Marks 5*16 = 80)

<i>Q.No</i>	<i>Questions</i>	<i>BLT</i>	<i>CO</i>	<i>Marks</i>
11.	a Discuss the concept of externalities in the context of environmental problems. Provide examples of both negative and positive externalities and explain their impact on environmental sustainability.	L2	1	16
	Or			
	b Discuss the concept of externalities in the context of environmental problems. Provide examples of both negative and positive externalities and explain their impact on environmental sustainability.	L2	1	16
12.	a Apply the economic implications of transitioning from fossil fuels to renewable energy sources. What challenges and opportunities does this transition present for economies worldwide?	L3	2	16
	Or			

	b	Explain the relationship between population density and environmental degradation.	L2	2	16
13.	a	Construct the major threats facing commercially valuable species today. What are the implications of overexploitation for biodiversity and ecosystem health?	L3	3	16
		Or			
	b	Explain the role of international agreements (such as CITES) in protecting commercially valuable species.	L3	3	16
14.	a	Develop a case study and Explain the causes, effects and suitable preventive measures of water and soil pollution.	L3	4	16
		Or			
	b	Identify the effects of improper municipal solid waste management? State the measures recommended for proper management of the solid waste.	L3	4	16
15.	a	Critically examine the policy measures taken by government to solve the problem of environmental pollution.	L4	5	16
		Or			
	b	Explain the important of environmental economics.	L2	5	16