

THE KAVERY ENGINEERING COLLEGE*(An Autonomous Institution)***M.E DEGREE END SEMESTER THEORY EXAMINATIONS, NOV/DEC 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>BTL</i>	<i>CO</i>	<i>Marks</i>
1.	How do traditional and indigenous communities express environmental value differently from modern economies?	L2	1	2
2.	In what ways do environmental problems threaten human health and livelihoods?	L2	1	2
3.	How does sustainable development differ from traditional models of economic growth?	L1	2	2
4.	In what ways do renewable and non-renewable resources require different economic approaches?	L2	2	2
5.	List out the effect of habitat loss on biodiversity.	L1	3	2
6.	What is the difference between wet deposition and dry deposition in the context of acid rain?	L2	3	2
7.	Mention the sources responsible for water pollution.	L1	4	2
8.	How does improper waste management affect wildlife and marine ecosystems?	L1	4	2
9.	What is environmental ethics, and why has it become increasingly important in the modern world?	L2	5	2
10.	How does environmental economics, as outlined by Tom Tietenberg, differ from traditional neoclassical economics?	L2	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 Can valuing the environment in economic terms truly capture its spiritual and cultural significance? Explain.	L3	1	16
	Or			
	Should developing nations be held to the same environmental standards as developed ones? Justify.	L3	1	16
12.	a Can true sustainability be achieved within a profit-driven global economy? Justify your answer.	L3	2	16
	Or			
	b Discuss the challenges arise in managing transboundary resources like rivers, oceans, and the atmosphere?	L3	2	16

13.	a	What are hotspots of biodiversity? Which are the hotspots found in India? Discuss their salient features.	L3	3	16
	Or				
	b	What lessons can be learned from the success of the U.S. Clean Air Act and the Sulphur Emission Reduction Protocol? Discuss in detail.	L3	3	16
14.	a	Is the current linear “take–make–dispose” model of consumption compatible with environmental sustainability? Explain your views.	L4	4	16
	Or				
	b	Do humans have an ethical responsibility to protect future generations from the impacts of global warming? Explain.	L4	4	16
15.	a	How do different worldviews—anthropocentric, biocentric, and ecocentric—approach the value of nature? Discuss.	L3	5	16
	Or				
	b	In what ways does Tietenberg's framework remain relevant in the face of emerging challenges like e-waste and plastic pollution? Explain.	L3	5	16