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School of Engineering
Second Sessional Examination, Odd Semester (AS: 2023-24)

B. Tech: CSE, CSAI, IOTBC & CCML Year: I	Semester: I
Course Title: Environment & Ecological Sustainability	Max Marks: 60
Course Code: NBSCC1101	Time: 3hrs

Instructions if any: Read the question Carefully.

	SECTION 'A' Q.N.1. Attempt all parts of the following:	Course Objective	Marks
a)	What are biotic & abiotic components?	CO1	1
b)	Name some renewable resources.	CO1	1
c)	What are the water borne diseases? Name a few of them.	CO1	1
d)	What is a food web?	CO2	1
e)	What is nutrient cycle?	CO2	1
f)	What is rainwater harvesting?	CO3	1
g)	What is solid waste management?	CO3	1
h)	How will you define Environment Management System?	CO3	1

	SECTION 'B' Q.N.2. Attempt any two parts of the following:	Course Objective	Marks
a)	Describe food chain, food web and ecological pyramids with suitable examples and diagrams	CO1	6
b)	Write short notes on the following : (i) Soil erosion (ii) Ozone layer depletion	CO1	6
c)	What is environmental education? Discuss the goals and guiding principles of environmental education.	CO2	6
d)	What is sustainable development? Briefly describe the concept and important pillars of sustainable developments.	CO3	6

	SECTION 'C' Q.N.3. Attempt any two parts of the following:	Course Objective	Marks
a)	What is EIA? How mining activities influence our environment? Explain in detail along with the steps involved in EIA.	CO1	5
b)	What is climate change? Describe the impact of climate change on human communities and agriculture.	CO1	5
c)	What are the major impacts of economic growth on environment?	CO1	5

	Q.N.4. Attempt any two parts of the following:		
a	Discuss how human activities related to food and shelter has affected our environment.	CO2	5
b)	What are major causes and consequences of deforestation?	CO2	5
c)	How noise pollution can be controlled? What are its negative consequences?	CO2	5

	Q.N.5. Attempt any two parts of the following:		
a	Give detail account on the following: (i) Conservation on biodiversity (ii) Pattern and levels of biodiversity.	CO2	5
b)	What are the major implications of global warming?	CO2	5
c)	Define pollution. Write notes on the causes and control measures of urban and industrial wastes.	CO3	5

	Q.N.6. Attempt any two parts of the following:		
a)	Short Notes on Water CESS Act?	CO3	5
b)	How Environmental Act Supports to Environment?	CO3	5
c)	What do you mean by environmental movement? Explain the role of NGOs in environmental development.	CO3	5

Table 1: Mapping between COs and questions
(Number of COs may vary from course to course)

COs	Questions Numbers	Total Marks
CO1	Q1a,b,c Q2a, b Q3a,b & c	30
CO2	Q1d,e,Q2c,Q4a,b, c & 5a,b	33
CO3	Q1f, g, h Q2d,Q5c, 6a,b,c	29 92

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