

Name: Chandan Uthwakarma

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Student University Roll No.: 60

School of Engineering

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

B. Tech: CSE, CSAL, IOTBC & CCML Year: I Semester: I

Course Title: Environment & Ecological Sustainability

Course Code: NBSCC1101

Max Marks: 60  
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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