
	Name of the School	School of Basic & Applied Sciences	Name of the Department	Department of Chemistry & Environmental Sustainability
	Name of the Program	B.Tech, CSE	Course Code- Course Name/ Name of faculty	UVA1001/ Environmental Studies
	Session	2024-25	Branch, Year & Semester	CS, 1 st , 1 st
	Time/Maximum Marks	90 Minutes/50	Set	A
	Note: Attempt all questions.			

Q No.	QUESTIONS	MARKS	CO
SECTION-A			
1	Define ecosystem and its type.	2	1
2	Differentiate between terrestrial and aquatic ecosystem.	2	1
3	Elaborate upon food chains with diagrams.	2	1
4	Comment upon water sources and its mismanagement.	2	2
5	Differentiate between renewable and non-renewable sources of energy.	2	2
6	Define soil erosion and its causes.	2	2
SECTION-B			
7	Explain the structure and function of an ecosystem.	6	1
8	Elaborate upon Ecological succession and its type.	6	1
9	Suggest the measures recommended for conservation of natural resources.	6	2
10	Describe about nuclear hazards, and how do they occur?	6	2
11	Explain the concept of trophic levels and their role in the energy flow of an ecosystem. Why is the flow of energy in an ecosystem considered as unidirectional?	7	1
12	Discuss the sources, effects, and control measures of water pollution.	7	2

	Name of the School	School of Basic and Applied Sciences	Name of the Department	Dept. of Chemistry & Environmental Sustainability
	Name of the Program	B.Tech.	Course Code/ Course Name/ Name of the faculty	UVA1001 / Environmental Studies / Ms. Shraddha Sharma
	Session	2024-25	Branch, Year & Semester	1 st year & 1 st Sem
	Time/Max Marks	3 Hours/100	Set	A
	Note: 1) Attempt all sections (A, B & C). 2) Attempt all questions in section A & B. 3) Section C consists of 5 questions. One question from each unit. Questions may have internal choice from the same unit. Attempt all questions.			

Q No.	QUESTIONS	MARKS	CO
SECTION-A: Attempt all of the following questions in brief.		(10x2=20)	
Q1(a)	Discuss the need for public awareness for environmental studies.	2	1
Q1(b)	Define Ecosystem and its component.	2	1
Q1(c)	Enlist the importance of water resources.	2	2
Q1(d)	Define soil erosion and its causes.	2	2
Q1(e)	Define Environmental Sustainability.	2	3
Q1(f)	Highlight the core elements of SDGs.	2	3
Q1(g)	Define Global Warming.	2	4
Q1(h)	State Acid Rain.	2	4
Q1(i)	Explain the Role of Environment in Human Health.	2	5
Q1(j)	Name two public policies for Environment.	2	5
SECTION-B: Attempt all questions.		(5x6=30)	
Q2(a)	Elaborate Ecological Pyramid with types.	6	1
Q2(b)	Discuss Alternative Renewable Energy resources.	6	2
Q2(c)	Describe the Challenges in attaining sustainability.	6	3
Q2(d)	Discuss climate change and its impact on environment.	6	4
Q2(e)	Write a note on Women Education and its impact on society.	6	5
SECTION-C: Attempt all questions. Attempt any one part of each question.		(5x10=50)	
Q3(a)	Describe the concept of ecosystem and its types along with examples and relevant diagrams.	10	1
Q3(b)	OR Discussion primary and secondary Ecological Succession with examples and diagrams.		
Q4(a)	Differentiate between renewable and non-renewable energy resources with advantages and disadvantages.	10	2
Q4(b)	OR Discuss sources, effect and control measures of water pollution.		

Q5(a)	Elaborate on the Role of engineering and technology in SDGs.	10	3
Q5(b)	OR Explain 17 goals of SDGs in detail.		

Q6(a)	Explain municipal solid waste management.	10	4
Q6(b)	OR Explain climate and mitigation measures.		

Q7(a)	Elaborate environmental protection act 1986. Role of NGOs towards Environment Protection.	10	5
Q7(b)	OR Explain importance of family welfare program and initiatives taken by Government of India.		