

Programme: BMLT

Course: Essential of Environmental Sciences

Course Code: 42ABMT208

Enrolment no. _____

Full Marks: 70

Time: 3 Hrs.

Q.No.	Questions	CO	Bloom Taxonomy Category	Marks
Section I				
1	Short Answer type questions.			
a	Describe biotic and abiotic factor in an ecosystem.	CO1	Understand	4 x 5 = 20
	or			
b	How does the environment impact human health?	CO1	Remember	
	or			
c	Describe the general trend of temperature change as altitude increases in the troposphere.	CO2	Understand	
	or			
d	Explain why the exosphere is considered the outermost layer of the atmosphere.	CO2	Understand	
	or			
e	How does the process of sedimentation help in wastewater treatment?	CO3	Understand	
	or			
f	Explain how agricultural runoff can lead to water pollution	CO3	Understand	
	or			
g	How does the use of public transportation help in preventing air pollution?	CO4	Understand	
	or			
h	Explain how burning fossil fuels contributes to air pollution.	CO4	Understand	
	or			
Section II				
Long Answer type questions.				
1	What are Ecological pyramids? Explain different types of ecological pyramids with neat sketch.	CO1	Create	3 x 10 = 30
	or			
2	Discuss the models of Energy flow in an Ecosystem. What are biogeochemical cycles? Explain with the help of a diagram the nitrogen cycle	CO1	Apply	
	or			
3	Discuss the sustainability of different wastewater treatment methods. Which approaches are more environmentally friendly and resource-efficient in the long run?	CO3	Evaluate	
	or			
4	Discuss the challenges and opportunities associated with implementing sustainable wastewater management practices in developing countries	CO3	Evaluate	
	or			
5	If you are trying to study in a noisy environment, what personal protective equipment could you use to reduce the impact of the noise?	CO5	Apply	
	or			
6	Analyze the pathways through which soil pollutants can enter the food chain and affect human health in communities.	CO5	Analyze	
	or			
Section III				
Application based questions				
1	Explain the different technological approaches used to control particulate matter emissions from industrial sources. Discuss the principles behind their operation and their relative effectiveness.	CO4	Analyze	1 x 20 = 20
	or			
2	Elucidate the underlying mechanisms through which particular air pollutants initiate and exacerbate the environmental problems of acid rain, smog, and climate change.	CO4	Analyze	
	or			

COURSE OUTCOME:

CO1 Importance of environmental science and concept of ecology, biogeochemical cycle and food Chain.

CO2 Composition and function of various segment of environment

CO3 Water pollution, sources and types of pollutants, their toxic effect and water treatment process.

CO4 Classification, toxic effects and control measures of air pollutants.

CO5 Brief introduction to Noise Pollution, Soil Pollution, and radiation pollution