Code: 20CE2601A

III B.Tech - II Semester – Regular / Supplementary Examinations APRIL 2024

ECOLOGY AND ENVIRONMENT

(Common to All Branches)

Duration: 3 hours Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level CO – Course Outcome

			BL	СО	Max.		
					Marks		
		UNIT-I					
1	a)	Define positive & negative ecological	L3	CO1	7 M		
		interaction with examples. Illustrate how					
		climate change can disrupt ecological					
		interactions.					
	b)	Why is the study of natural selection and	L3	CO2	7 M		
		evolution significant in the study of					
		ecology? Prepare the steps involved in					
		natural selection.					
OR							
2	a)	Differentiate between Ecosystem &	L2	CO1	7 M		
		Biosphere.					
	b)	Define carrying capacity of ecosystem.	L3	CO2	7 M		
		Illustrate how the anthropogenic activities					
		affect carrying capacity of ecosystem with					
		example?					

		UNIT-II					
3	a)	Discuss the role of remote sensing and GIS	L2	CO2	7 M		
		in Integrated Water Resource Management.					
	b)	Explain in detail the latest technologies that	L3	CO2	7 M		
		can be used for soil conservation.					
OR							
4	a)	Mention the major conflicts in the	L3	CO2	7 M		
		development of water resources in India.					
	b)	Prepare the main types and causes of soil	L3	CO2	7 M		
		erosion in India? How does it affect the					
		environment & the economy of India?					
		UNIT-III		1			
5	a)	Write a note on the Composition of Earth's	L3	CO3	7 M		
		atmosphere.					
	b)	Demonstrate the scales used in meteorology	L3	CO3	7 M		
		and how they are used?					
		OR		1			
6	a)	What is the importance of the lithosphere	L2	CO3	7 M		
		and explain its layers in detail?					
	b)	Explain the applications of computers in	L3	CO3	7 M		
		Environmental Geosciences.					
UNIT-IV							
7	a)	Why is the Environment Protection Act of	L4	CO4	7 M		
		1986 called as Umbrella Act? Layout the					
		objectives of the Environmental Protection					
		Act of 1986.					

	b)	How does environmental education	L3	CO4	7 M		
		contribute to addressing environmental					
		issues?					
OR							
8	a)	Prioritize on environmental movements in	L4	CO4	7 M		
		India.					
	b)	Illustrate the different ways to promote	L3	CO4	7 M		
		environmental awareness.					
UNIT-V							
9	a)	Describe the various stages involved in	L2	CO4	7 M		
		undertaking Environmental Impact					
		Analysis.					
	b)	Write a note on Clean Development	L3	CO5	7 M		
		technologies and their achievements					
		OR					
10	a)	Azadirachta indica as a Bio-monitor for	L3	CO5	7 M		
		Environmental Pollution. Explain.					
	b)	Identify the role of organic farming in	L2	CO5	7 M		
		mitigating climate change.					