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<b>ADAMAS</b>
UNIVERSITY
PURSUE EXCELLENCE

## **ADAMAS UNIVERSITY**

## END SEMESTER EXAMINATION (Academic Session: 2020 – 21)

UNIVERSITY PURSUE EXCELLENCE	(Academic Session: 2020 – 21)			
Name of the Program:	B.Sc. in Computer Science	Semester:	IInd	
Paper Title:	Environmental Science	Paper Code:	EVS11108	
Maximum Marks:	50	Time Duration:	3 Hrs	
Total No. of Questions:	29	Total No of Pages:	3	
(Any other information for the student may be mentioned here)	ny other information for the <b>1.</b> At top sheet, clearly mention Name, Univ. Roll No., Enrolment No.			
	<b>3.</b> Assumptions made if any, should be stated clearly at the beginning of your answer.			

	Group A Answer All the Questions (5 x 1 = 5)	T	
		Knowledge Level	
1	Differentiate between primary and secondary pollutants.	U	CO5
2	What are keystone, flagship and umbrella species?	R	CO2
3	What is a biome? Give examples.	R	CO1
4	"Ozone acts a pollutant is the troposphere and as a policeman in the stratosphere"- explain.	An	CO2
5	Mention disadvantages of geothermal energy?	U	CO3
	Group B		
	Answer Allthe Questions $(5 \times 2 = 10)$		
6 a)	How do greenhouse gases cause global warming?	E	CO3
	(OR)		
6 b)	What is incineration? Discuss the advantages and limitations of	R	
	incineration. (1+4=5)		
7 a)	How seed bank can support biodiversity?	An	CO6
	(OR)		
7 b)	Discuss the difference in the abiotic components of a forest	C	CO <sub>1</sub>
	ecosystem and a grassland ecosystem.		
8 a)	How are clouds formed?	U	CO2
	(OR)		
8 b)	How can aquatic ecosystems be classified based on salinity?		
9 a)	What do you mean by point and diffused sources of water pollution?	U	CO2
	(OR)		
9 b)	What is hazardous waste?	U	CO3
10 a)	How can you reduce single use plastic from your everyday life?		CO1
	(OR)		
10 b)	Differentiate between attached growth and suspended growth processes.	U	CO4
	Group C		

	Answer All the Questions $(7 \times 5 = 35)$		T
11 a)	What do you mean by ecological pyramid? Give one example for each a. Inverted pyramid of number b. Inverted pyramid of biomass	R	CO1
	(OD)		
441	(OR)		<u> </u>
11 b)	<ul> <li>i) What is genetic diversity? Give proper example.</li> <li>ii) Which species have shown the highest genetic diversity in India?</li> <li>iii) Discuss how religious ideology helped to protect the biodiversity?</li> </ul>	R R C	CO2
12 a)	Write a short note on In situ Conservation of biodiversity.		
	(OR)		
12 b)	<ul><li>i) Presently what threats are influencing the Indian biodiversity?</li><li>ii) How rain water harvesting can actually be a sustainable water management practice?</li></ul>	E An	CO6
13 a)	What is "photochemical smog"? What are the major pollutants responsible for photochemical smog formation? Describe the chemical reactions for formation of PAN. (1+2+2=5)	E	CO3
	(OR)		~~^
13 b)	What are the fundamental steps involved in an EIA? Draw a simple flowchart describing the steps that are followed in an EIA process in India. (2+3=5)	Ap	CO2
14 a)	Why CFC has been phased out? What is the alternative of CFC being used as coolant? Is there any problem with the alternative coolant? (3+1+1=5)	U	CO4
	(OR)		
14 b)	What is incineration? Discuss the advantages and limitations of incineration. $(1+4=5)$	An	CO1
15 a)	How does wind power get produced in wind turbine? What is the most important criteria for site selection for installation of wind turbine. (4+1=5)	Ap	CO4
	(OR)		T
15 b)	Write a short note on sources and long-time effects of soil pollution.	U	CO2
16 a)	Explain Preliminary, Primary and Secondary Treatment.	U	CO5
	(OR)		ı
16 b)	What is biomass energy? Why is biomass energy called stored form of solar energy? Discuss the limitations of biomass energy. (1+2+2=5)		CO1
17 a)	Why is arsenic (As) a serious groundwater pollutant in the state of West Bengal?	Ap	CO5
	(OR)		T
17 b)	What is eutrophication? How are BOD and DO related to each other once a water body is polluted by effluent rich in organic matter (considering effluent discharge occurs only once and not repeated). (2+3=5)	An	CO2