Q. Cou	Q. Code:698/05							
Reg. No.								

## **B.E.** / **B.TECH. DEGREE EXAMINATIONS, MAY 2023**

Second Semester

## **GE18251 – ENVIRONMENTAL SCIENCE AND ENGINEERING**

(Common to all branches)

## (Regulation 2018 / Regulation 2018A)

TIME: 3 HOURS		IOURS	MAX. MARKS: 10						
	Course Statement Outcomes								
	CO1 Describe the importance of ecosystems, biodiversity and its protection.								
(	Implement the knowledge which requires optimum use of various natural resources for the conservation of natural resources.								
(	Classify the different types of pollution, their effects and control measures. Also apply the knowledge gained for disaster management.								
(	Describe the sustainable development, social issues, role of NGO's and various laws available in the country for environmental protection.								
(	C <b>O</b> 5	Recognize the importance of women and child welfare, prevention and usage of technology for environmental management.	on of HIV	/AIDS	S 2				
		PART- A (10 x 2 = 20 Marks) (Answer all Questions)							
		()		CO	RBT LEVEL				
1.	Disting	uish between endemic and endangered species.		1	2				
2.	2. How would you differentiate food chain and food web?								
3.	3. List any two reasons for ground water depletion. 2								
4.	4. Compare renewable energy and non-renewable energy. 2								
5.	5. What are the causes for thermal pollution?								
6.	6. How can the soil pollution be controlled?								
7.	7. Mention the reasons for acid rain.								
8.	Sugges	t any two salient features of water act.		4	2				
9.	How ca	an be Dengue controlled?		5	1				
10.	How w	ould you define the term population explosion?		5	1				
PART- B (5 x $14 = 70 \text{ Marks}$ )									
			Marks	CO	RBT LEVEL				
11. (	(a) (i)	Explain the structure and functional aspects of forest ecosystem.	<b>(7)</b>	1	3				
	(ii)	Elaborate on the in situ conservation of biodiversity.	(7)	1	3				

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		(OR)							
<b>(b)</b>	(i)	Summarize the structure and functional aspects of desert ecosystem.	<b>(7)</b>	1	3				
	(ii)	Brief the ex situ conservation of biodiversity.	(7)	1	3				
12. (a)	(i)	List out the disadvantages of the dam.	(7)	2	4				
	(ii)	Examine the reasons for land degradation.	<b>(7)</b>	2	4				
(OR)									
(b)	(i)	Explain the impact of mining on environment.	(7)	2	4				
	(ii)	Outline the effects of modern agriculture.	(7)	2	4				
13. (a)	Ana	lyze the sources, effects and control of air pollution.	(14)	3	3				
		(OR)							
(b)	Disc	cuss the sources, effects and control of water pollution.	(14)	3	3				
14. (a)		mine the process of resettlement and rehabilitation of people with a study.	(14)	4	4				
		(OR)							
(b)	O) Interpret the salient features of Wild life (Protection) Act, 1972 and Forest (14 Conservation Act, 1980.								
15. (a)	(i)	Summarize the causes and control of Swine flu.	(7)	5	3				
	(ii)	Explain the highlights of child welfare program.	<b>(7)</b>	5	3				
		(OR)							
(b)	(i)	Summarize the causes and control of Acquired Immuno deficiency Syndrome (AIDS).	(7)	5	3				
	(ii)	Account for the importance of women welfare program.	(7)	5	3				
PART- C (1 x 10 = 10 Marks)									
		(Q.No.16 is compulsory)							
			Marks	co	RBT LEVEL				
16.	Anal safeg	yze the importance of principles of green chemistry in environmental quard.	(10)	4	5				

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