

Reg. No.														
----------	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Question Paper Code	21061
---------------------	-------



Sri SAI RAM INSTITUTE OF TECHNOLOGY

An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution
Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairamit.edu.in



B.E/B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2021

Fourth Semester

ELECTRONICS AND COMMUNICATION ENGINEERING

(COMMON TO INFORMATION TECHNOLOGY)

GE8291 – ENVIRONMENTAL SCIENCE AND ENGINEERING

(Regulations 2017)

Duration: 3 Hours

Max. Marks: 100

Answer ALL Questions

PART-A (10 x 2 = 20 Marks)

1.	Enlist the various scope and significance of environmental science.	K3	CO2
2.	What are Endangered and Endemic Species? Give examples.	K1	CO1
3.	Classify the air pollutants with examples.	K3	CO3
4.	Suggest few measures to mitigate disaster.	K3	CO3
5.	Outline the merits of renewable energy resources.	K2	CO4
6.	Identify the effects of mining on the environment.	K2	CO4
7.	“Ozone is a life savior if present in stratosphere but is a pollutant, if present in troposphere” - Comment on it.	K2	CO5
8.	Recall the objectives of Environment (Protection) Act, 1986.	K1	CO5
9.	Define Doubling Time.	K1	CO6
10.	Mention any two welfare programme for children and women adopted in India.	K2	CO6

PART – B (5 x 13 = 65 marks)

11. a) Describe the types, characteristic features, structure and function of
(i) Forest ecosystem. 6 K1 CO1
(ii) Lake ecosystem. 7 K1 CO1
OR
- b) Discuss in detail about the various values of biodiversity. 13 K1 CO1
12. a) Define marine pollution. Write the importance of coral reef. Explain the various causes, effects and control measures of marine pollution. 13 K2 CO3
OR
- b) With the help of flow diagram discuss the process of Solid Waste Management. 13 K3 CO3
13. a) (i) Write an informative note on deforestation. 7 K2 CO4
(ii) Explain the role of an individual in conservation of natural resources. 6 K3 CO2
OR
- b) Demonstrate the changes caused by overgrazing and modern agriculture. 13 K2 CO4
14. a) What is Resettlement and Rehabilitation? Discuss the problems and concerns related to it? Mention few features of National policy for affected people. 13 K2 CO5
OR
- b) State the important provisions of Water and Air (Prevention & Control of Pollution) Act. 13 K2 CO5
15. a) Compute the role of Information Technology in Environment and Human health. 13 K3 CO6
OR
- b) Recognize the objectives and elements of value education. Discuss the concept and importance of value education in detail. 13 K2 CO6

PART C (1 X 15 = 15 MARKS)

16. a) What do you mean by conservation of biodiversity? Suggest the strategies applied in India for conservation of wildlife species. 15 K3 CO2
OR
- b) What are the types of nuclear accidents? Explain the effects of nuclear accidents and nuclear holocaust with case studies. 15 K3 CO3