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BE - SEMESTER-I &II (NEW) EXAMINATION - SUMMER-2019

	•	,	
Subject Code: 3110007			Date: 15/06/2019

**Subject Name: Environmental Sciences** 

Time: 10:30 AM TO 01:00 PM Total Marks: 70

**Instructions:** 

1. Attempt all questions.

- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

	3.	rigures to the right indicate full marks.	Marks
Q.1	(a)	Why environmental education is necessary in engineering curriculum?	03
•	, ,		04
	(b) (c)	Describe briefly various types of pollutions.  What are the sources of water pollution? Discuss the effects of water	04 07
	(C)	pollution.	07
Q.2	(a)	Discuss the impact of technology on environment.	03
Q.2	(b)	State the Indian Ambient air quality standards.	03
	(c)	Enlist common air pollutants. Discuss the sources and effects of any three	07
		air pollutants.  OR	
	(c)	What is noise pollution? Describe the sources and effects of noise	07
	(C)	pollution.	07
Q.3	(a)	Justify the statement "biomedical wastes are to be segregated before	03
Q.O	(4)	disposal".	•
	<b>(b)</b>	What is e-waste? Explain the methods to manage e-waste.	04
	(c)	What is global warming? Why is it considered to be one of the major	07
		global environmental issues?	
		OR O	
<b>Q.3</b>	(a)	Explain the importance of sustainable development.	03
	<b>(b)</b>	What are the causes and effects of acid rain?	04
	(c)	Describe different methods of solid waste collection and explain the	07
		hazards associated with improper handling of this waste.	
<b>Q.4</b>	(a)	Enlist various green house gases and discuss the effects of any one on	03
Q	(33)	environment.	
	<b>(b)</b>	Explain green building technology and state its objectives.	04
	(c)	What do you understand by Clean Development Mechanism (CDM)?	07
		Discuss its objectives, advantages and limitations.	
		OR	
<b>Q.4</b>	(a)	Discuss the advantages of calculating carbon footprints.	03
	<b>(b)</b>		04
	(a)	detail.  Discuss the international initiatives for mitigating global environmental	07
	(c)	issues.	U1
Q.5	(a)	What do you understand by 4R's.	03
Q.c	(b)	Suggest some ways to convert wastes to resources.	04
	(c)	Explain the concepts of smart cities with suitable example.	07
	(-)	OR	
Q.5	(a)	Discuss the benefits of green buildings.	03
	<b>(b)</b>	Describe briefly about smart cities development in India.	04
	(c)	Explain the principles of 4R's and describe how these principles are	07
		applicable to control environmental pollution.	