

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**BE - SEMESTER-IV (NEW) EXAMINATION – SUMMER 2022**

**Subject Code:3143510****Date:02-07-2022****Subject Name:Environmental Management-II****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.
4. Simple and non-programmable scientific calculators are allowed.

	<b>MARKS</b>
<b>Q.1</b> (a) Define RemoteSensing, EIA and GIS.	<b>03</b>
(b) Describe Mie Scattering.	<b>04</b>
(c) Explain types of radioactive waste.	<b>07</b>
<b>Q.2</b> (a) Describe categories of Industries.	<b>03</b>
(b) Describe disposal of radioactive waste.	<b>04</b>
(c) Explain the ongoing need for cleaner technology.	<b>07</b>
<b>OR</b>	
(c) Explain in detail Application of Remote Sensing in Environmental Monitoring.	<b>07</b>
<b>Q.3</b> (a) Describe Environmental Policy.	<b>03</b>
(b) How Radioactive waste is collected?	<b>04</b>
(c) Explain Institutional Framework of Environmental Regulations in India.	<b>07</b>
<b>OR</b>	
<b>Q.3</b> (a) Brief CEPI.	<b>03</b>
(b) How Radioactive Waste is stored?	<b>04</b>
(c) What is the Role of GIS in EIA?	<b>07</b>
<b>Q.4</b> (a) Define Rad, Roentgen and Half Life Period.	<b>03</b>
(b) What is the scope of LCA?	<b>04</b>
(c) Explain the Categories of GIS.	<b>07</b>
<b>OR</b>	
<b>Q.4</b> (a) Describe Hazard and Risk.	<b>03</b>
(b) Describe Electromagnetic Spectrum.	<b>04</b>
(c) Explain in detail purpose of life cycle assessment and ISO standards of life cycle assessment.	<b>07</b>
<b>Q.5</b> (a) Brief Vector format of GIS.	<b>03</b>
(b) What is the goal of LCA?	<b>04</b>
(c) Explain in detail stages in product of life cycle assessment.	<b>07</b>
<b>OR</b>	
<b>Q.5</b> (a) Define Curie, Rutherford and Rem.	<b>03</b>
(b) Which are the scales of GIS?	<b>04</b>
(c) Explain in detail effects of Radioactive Pollution.	<b>07</b>

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