Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER- VIII • EXAMINATION - SUMMER 2015**

	•	Code: 183702 Date: 13/5/201	15
Tiı	me: tructio	Name: Environmental Risk Assessment & Management 10:30 AM to 01:00 PM Total Marks: 70 ons: Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a) (b)	Write a short note on technological risks of applying the risk assessment tool. Write a risk management plan for the textile industry.	07 07
Q.2	(a) (b)	Explain the DO sag curve in terms of risk management option in river. Show the emergency planning for the chemical release in the gaseous form due to leakage.	07 07
	(I-)	OR	05
	<b>(b)</b>	Explain the Multipath way exposure modeling for the toxic substance.	07
Q.3	(a) (b)	Give the classifications risks in detail.  Write down the source & effect of mercury in wastewater.  OR	07 07
Q.3	(a) (b)	Write a short note on dose response evaluation methods.  Define & explain the following term.  1. Carcinogens 2. Toxicity 3. Dose conversion factor	07 07
Q.4	(a) (b)	Write the note on ERA probability of Bhopal Gas Tragedy. Explain the process of vulnerability assessment in Chemical industry.  OR	07 07
Q.4	(a) (b)	Briefly explain the HAZOP method for risk assessment. Apply the FMEA method on the case of fire hazard in textile industry.	07 07
Q.5	(a) (b)	Differentiate between environmental & ecological risks. Enlist the various methods used for Ecological risk assessments & explain any one in detail.	07 07
Q.5	(a) (b)	OR Prepare a risk assessment plan for Nuclear power plant. Prepare a risk assessment plan for mining sector.	07 07

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