Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII EXAMINATION - SUMMER 2016

\mathbf{S}	ubje	ct Code:183702 Date:07/05/2016	
S	ubje	ct Name:Environmental Risk Assessment and Management	
T	ime:	10:30 AM to 01:00 PM Total Marks: 70	0
In	struct	ions:	
		1. Attempt all questions.	
		 Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Explain the HAZOP method for risk assessment.	07
	(b)	Write a short note on FMEA method for risk assessment.	07
Q.2	(a)	Do the detailed analyses of the Bhopal Gas Tragedy by event tree method.	07
	(b)	Write the various social benefits related to the outcome of environmental risk assessment.	07
		OR	
	(b)	Explain the risk management plan for the secured landfill site.	07
Q.3	(a)	Give the classifications of risk & explain the environmental risk in detail.	07
	(b)	Draw & explain the framework of risk assessment & management.	07
		OR	
Q.3	(a)	Explain the various steps involved in the risk management.	07
	(b)	Define & explain the following term.	07
		1. Multipath way exposure 2. Exposure factor 3. Slope factor	
Q.4	(a)	Write the environmental risk management plan for the following.	14
		1. Nuclear power plant	
		2. Mineral processing units OR	
Q.4	(a)	Write the ecological risk management plan for the following.	14
~ ··	(4)	1. Nuclear power plant	
		2. On shore petrochemical plant	
Q.5	(a)	Write the short note on cause & impacts of the disaster happened in Three mile	07
V. C	(4)	Island.	07
	(b)	Explain the dose response evaluation method for risk calculations.	07
o -		OR	c =
Q.5	(a)	Explain the fate & transport of the toxic substance in the environment with neat &	07
	(b)	clean diagram. Enlist all & explain one of the method of ecological risk management.	07
