Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VIII EXAMINATION – WINTER 2015

Subject Code:182204 Date:16/12/2015

Subject Name: Mine Safety Engineering

Time: 2:30pm to 5:00pm Total Marks: 70

Instructions:

1. Attempt all questions.

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

Q.1	(a)	What is the role of Directorate General of Mines Safety (DGMS)?	07
	(b)	What are the steps taken for the improvement of safety in mines in our country?	07
Q.2	(a)	Write a note on Personal protective equipment used in mines	07
	(b)	Explain the statement "Vocational training is helpful to safety and productivity"	07
		OR	
	(b)	Write a short note on Mine vocational training records and reports?	07
Q.3	(a)	Describe the role of workmen instructor?	07
	(b)	What are the causes of accident? Prepare as a mining engineer prepare a report on an accident occurred in a mine.	07
		OR	
Q.3	(a)	Explain how is risk analysis carried out in mining with a flowchart?	07
	(b)	How is the training schemes assessed and evaluated in mining?	07
Q.4	(a)	What are the various techniques employed for training?	07
	(b)	Write a short note on functions of Pit safety committee?	07
		OR	
Q.4	(a)	Explain the accident and incident analysis?	07
	(b)	What are the means of propagating and publicizing safety in mines?	07
Q.5	(a)	Explain in brief on the occupational health hazards and environmental factors affecting the safety in mines?	07
	(b)	Describe the role of safety officer in mines?	07
		OR	
Q.5	(a)	How is layout and maintenance affecting the safety in mining?	07
	(b)	How is accident proneness determined in mining?	07
