

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019****Subject Code: 2182204****Date: 25/11/2019****Subject Name: Mine Safety Engineering****Time: 02:30 PM TO 05:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Discuss the causes behind any accident takes place in mines.	03
	(b) Describe the importance of Safety education and training in mine.	04
	(c) Explain development of industrial safety in mining operation.	07
Q.2	(a) Discuss the basic functions of vocational training centre.	03
	(b) Write note on accident compensation.	04
	(c) Explain various types of accident takes place in mines.	07
	OR	
	(c) As a mining engineer prepare a report on an accident occurred in a mine.	07
Q.3	(a) Discuss the role of workers in mines.	03
	(b) What are the steps taken for the improvement of safety in Indian mines?	04
	(c) Explain personal protective equipment used in mines.	07
	OR	
Q.3	(a) Discuss the role of supervisor in mines.	03
	(b) Explain classification of accident in mines.	04
	(c) Explain the purpose and procedure for investigation of accident.	07
Q.4	(a) Discuss the role of vocational training centre for enhancing safety of employees.	03
	(b) Describe the different aids for the motivation of workers.	04
	(c) Explain accident and incident analysis.	07
	OR	
Q.4	(a) Describe are the various techniques employed for training.	03
	(b) Discuss the role of safety officer in mines.	04
	(c) Explain assessment and evaluation of training schemes.	07
Q.5	(a) Explain the accident costs, safety and productivity.	03
	(b) Explain the duties of pit safety committee.	04
	(c) Explain the publicity and propaganda for safety.	07
	OR	
Q.5	(a) Explain how accident proneness is determined in mining operation.	03
	(b) Discuss the role of workmen's inspector in mines.	04
	(c) Explain the appraisal of safety program.	07
