

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

### BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019

**Subject Code:2182204**
**Date:13/05/2019**
**Subject Name:Mine Safety Engineering**
**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.

			MARKS
Q.1	(a)	Write a note on Personal protective equipment used in mines.	03
	(b)	What are the causes of accident? As a mining engineer	04
	(c)	Write a note on job safety analysis	07
Q.2	(a)	Describe the role of workmen inspector and mining engineer in mines?	03
	(b)	Write a short note on motivation of workers.	04
	(c)	Explain vocational training center rule in brief	07
		<b>OR</b>	
	(c)	Explain safety layout in brief	07
Q.3	(a)	What do you understand by safety education?	03
	(b)	Draw the layout of emergency safety organization	04
	(c)	Describe the role of 2 <sup>nd</sup> class coal mines manager	07
		<b>OR</b>	
Q.3	(a)	What do you understand by fitness qualification standard ?	03
	(b)	How to maintain accident report register? Explain in brief	04
	(c)	Which is major report we maintain in mining records	07
Q.4	(a)	How to calculate accident rate in open cast mines .	03
	(b)	Explain main role of management team of safety committee	04
	(c)	What do you understand by lesson planning in vtc?	07
		<b>OR</b>	
Q.4	(a)	What is the relation between mine safety and mine production	03
	(b)	Explain maintenance effect on mine safety	04
	(c)	How to develop underground mine safety? explain in brief	07
Q.5	(a)	Explain purpose and procedure of accident investigation	03
	(b)	Construction features & application of shield support.	04
	(c)	How to develop mine safety in initial stage of mine extraction	07
		<b>OR</b>	
Q.5	(a)	Explain main role of staff and institution of vocational training center.	03
	(b)	List out major operation in opencast mine with safety	04
	(c)	How to getting physical certificate? explain in brief	07

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