

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-III (New) EXAMINATION – WINTER 2018****Subject Code: 2132201****Date: 05/12/2018****Subject Name: Introduction To Mining****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
<b>Q.1</b>	(a) What is the significance of mining industries in India?	<b>03</b>
	(b) Explain socio economic impacts of mining?	<b>04</b>
	(c) Write note types of opening for different occurrences of mineral deposit with neat sketch.	<b>07</b>
<b>Q.2</b>	(a) Explain Terms: (1) Face; (2) District (3) Pillar	<b>03</b>
	(b) Explain Terms: (1) Stope; (2) Raise (3) Winze; (4) Level	<b>04</b>
	(c) Write any seven mineral's name and its resources in Gujarat and India.	<b>07</b>
	<b>OR</b>	
	(c) Write any seven mineral's name and its resources in the World.	<b>07</b>
<b>Q.3</b>	(a) Explain: Drillability of rocks	<b>03</b>
	(b) Explain: Various type of drills	<b>04</b>
	(c) Write the difference between underground and surface mining	<b>07</b>
	<b>OR</b>	
<b>Q.3</b>	(a) Explain: Diamond drilling	<b>03</b>
	(b) List out the difficulties during boring.	<b>04</b>
	(c) List out mining methods for coal and non-coal deposit with brief idea.	<b>07</b>
<b>Q.4</b>	(a) Describe the principle of blasting.	<b>03</b>
	(b) Explain the blasting practice for underground mines.	<b>04</b>
	(c) Write the different properties of explosive.	<b>07</b>
	<b>OR</b>	
<b>Q.4</b>	(a) Difference: Low explosive Vs High explosive	<b>03</b>
	(b) Explain the blasting practice for surface mines.	<b>04</b>
	(c) Explain types of explosive and its applicability in detail.	<b>07</b>
<b>Q.5</b>	(a) Describe the directional drilling.	<b>03</b>
	(b) Write the basic concept for development of mine.	<b>04</b>
	(c) List out any seven loading equipments with its applicability used in surface mine.	<b>07</b>
	<b>OR</b>	
<b>Q.5</b>	(a) Describe the deflection of boreholes.	<b>03</b>
	(b) Which types of transportation equipment are used in underground mining?	<b>04</b>
	(c) List out any seven loading equipments with its applicability used in underground mine.	<b>07</b>

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