

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER– III (New) EXAMINATION – WINTER 2019****Subject Code: 2132201****Date: 3/12/2019****Subject Name: Introduction To Mining****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) What are the socio-economic impacts of mining on society?	03
	(b) Write a short note on: history of mining.	04
	(c) Difference between underground mining and opencast mining.	07
Q.2	(a) Explain: (a) Gallery (b) Dip (c) Strike	03
	(b) Explain: (a) Cross-cut (b) Drive (c) Level interval (d) Draw point	04
	(c) List out mineral resources in Gujarat with its locations.	07
	OR	
	(c) List out mineral resources in India with its locations.	07
Q.3	(a) What is boring? Explain the principles of boring.	03
	(b) Difficulties in boring.	04
	(c) Explain in detail: Core recovery	07
	OR	
Q.3	(a) Purpose of drilling in the field of mining.	03
	(b) Deflection of boreholes.	04
	(c) Explain in detail: Diamond drilling with neat sketch.	07
Q.4	(a) Explain: High explosive	03
	(b) List out drilling accessories used for drilling.	04
	(c) Explain any two loading equipment with neat sketch used in opencast mines.	07
	OR	
Q.4	(a) Explain: Low explosive	03
	(b) What are the types of drills? Explain any one.	04
	(c) Explain any two loading equipment with neat sketch used in underground mines.	07
Q.5	(a) List out loading and transportation equipments used in underground mines.	03
	(b) List out the equipments used in blasting initiation system.	04
	(c) Explain in detail : types of explosives	07
	OR	
Q.5	(a) List out the machineries used for drilling in opencast mines.	03
	(b) Explain: (a) Diamond drill bit (b) Tricone drill bit	04
	(c) Explain in detail : properties of explosives	07
