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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) EXAMINATION - WINTER 2017

Subject Code: 2172201/2172208	Date: 02/11/2017
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Subject Name: Mine Plannning

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)	Define the following term: Bench Height, Bench Width and Stripping Ratio.	03
	(b)	What is the role of planning in mining venture?	04
	(c)		07
Q.2	(a)	Describe Taylor's mine life rule.	03
	(b)		04
	(c)	What is cut off grade? How it is determine? Explain in brief.	07
		OR	
	(c)	What do you mean by grade tonnage curve? Explain their computation.	07
Q.3	(a)	Describe factors affecting to planning and designing of a surface mine.	03
	(b)		04
	(c)	Explain the role of planning and scheduling of production in	07
		underground mining. OR	
Q.3	(a)	Write a short note on ultimate pit configuration?	03
	(b)		04
	(c)	What is the role of bench geometry and mine layouts in surface mine	07
		planning?	
Q.4	(a)	Write a short note on rate of production.	03
	(b)	Explain mining system and sub-system in underground mine planning.	04
	(c)	What is role of Feasibility study report for metallic minerals? OR	07
Q.4	(a)	What do you mean by mining losses? How it is affecting life of mine?	03
	(b)		04
	(c)	design? Prepare a detailed project report of any mines you have visited.	07
	(c)	repare a detailed project report of any fillness you have visited.	07
Q.5		What do you mean by optimal geometric size of a mine?	03
	(b)	What are various economic considerations for optimization of mine design?	04
	(c)	List out different phases of planning process? Explain production planning.	07
		OR	
Q.5	(a)	What are the advantages and amendments in mine closure planning?	03
	(b)		04
	(c)	Explain the various legal aspects of mine closure planning.	07

