

10MN63

## Sixth Semester B.E. Degree Examination, June/July 2019 Underground Metal Mining

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, selecting atleast TWO questions from each part.

## PART – A

1	a.	What are the scope and limitation of U/G metal mining?	(10 Marks)
	b.	Explain the peculiarities of metaliferous mine deposit.	(10 Marks)
2	a.	What are the factors affecting the choice of level interfaces?	(10 Marks)
	b.	What is the uniqueness of underground access?	(10 Marks)
3	a.	Explain the classification of stoping.	(10 Marks)
	b.	Explain the factors to be considered for choice of stoping methods in the metal r	nine.
			(10 Marks)

a. What are the various supported class of mining methods? (03 Marks)
b. Explain with neat sketch, the cut and fill method of stopping with Conditions, Application, Advantages and disadvantages. (17 Marks)

## PART - B

5 Explain with neat sketch, the sub level stopping with their applicability, advantages and disadvantages. (20 Marks)

6	a.	What is the procedure involved in the extraction of shaft pillars?	(10 Marks)
	b.	What is the special precautions to be taken during extraction of pillars?	(10 Marks)

7 a. What are the problems associated with deep mining? (10 Marks)
b. What are the stoping methods in deep mining? Explain any one. (10 Marks)

8 Explain the Tunnel boring machine and Shaft boring machines and their application. (20 Marks)

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