

USN 18MN35

Third Semester B.E. Degree Examination, June/July 2023 Drilling and Blasting

Time: 3 hrs. Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

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		Module-1		
1	0	Discuss in detail about the exploration drilling.	(10 Marks)	
1	a.	With neat sketch explain the working principle of Auger drill.	(10 Marks)	
	b.	With heat sketch explain the working principle of Auger diffi.	(202)	
		OR	(10 Marks)	
2	a.	Explain in detail the stepwise procedure for storage of core samples.	(10 Marks)	
	b.	Explain in detail, the case to be taken during preservation of rock core.	(10 Marks)	
		Module-2	(10 3/ 1)	
3	a.	Discuss in detail, the principles of drilling.	(10 Marks)	
	b.	Discuss in detail, the mechanics of blasting.	(10 Marks)	
		OR		
4	a.	Explain the factors to be considered for selection of drill.	(10 Marks)	
	b.	With neat sketch, explain the working principle of water jet drilling.	(10 Marks)	
		Module-3		
5	a.	Explain the procedure for testing the explosives and types of testing.	(10 Marks)	
	b.	Explain the various types of accidental firing hazards.	(10 Marks)	
		OR		
6	a.	Discuss in detail about magazine and its types.	(10 Marks)	
U	b.	Explain in detail about the electric detonator.	(10 Marks)	
	0.	Explain in detail deed as		
Module-4				
7	a.	Explain the stepwise basic blast hole drilling process.	(10 Marks)	
,	b.	With neat sketch, explain the square and staggered pattern of drilling.	(10 Marks)	
	U.	The first field sketch, or promise and separate states and separate states are separat		
	OR			
8		Discuss the various problem associated with blasting.	(10 Marks)	
o	a. b.	Explain about Crater theory with neat sketch.	(10 Marks)	
	υ.	Explain about Clater theory with hear sheets.		
Module-5				
0		Explain the various factors which influence the drilling and blasting pattern in the	inderground	
9	a.		(10 Marks)	
	1	coal mines.	(10 Marks)	
	b.	Discuss about the ring hole blasting with neat sketch.	()	
OR				
4.0			(10 Marks)	
10	4	Explain the Blasting Practices in a raise of size 2.3m × 1.2m.	(10 Marks)	
	b.	Explain the long hole stoping with neat sketch	(IU Mains)	

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