CBCS SCHEME

USN			15MN46
	Fourth Semester B	B.E. Degree Examination, June/Ju	lv 2018
		and Blasting Engineering	, and a
Tin	ne: 3 hrs.		Max. Marks: 80
	Note: Answer any FIVE full	questions, choosing one full question from e	each module.
1	Define the term drillability of in percussive drilling, with suit	Module-1 rock. Explain the factors, which influence the	
	, and a second distribution of the second distri		(16 Marks)
2	What are the various drill bi	OR its commonly used in percussive rotary and	d notami manavasiva
	drilling? Explain each bit in det	tail, with suitable figures. Give applications.	(16 Marks)
3	a. Explain various properties	Module-2	
5	b. Discuss on	of explosives.	(08 Marks)
	Emulsion explosives	(ii) Site Mixed Slurry (SMS) explosives.	(08 Marks)
, (-		(8,10)
	Write short notes on:	OR	05°0
2/2/1	a. Permitted explosives		(08 Marks)
1	b. ANFO	_	(08 Marks)
		N. I.I.	
5	a. Explain with a neat diagram, the constructional features and purpose of each part of an		
	electric detonator? (08 Marks)		
	b. What is a misfire? Explain in detail the procedure to be adopted in dealing with a misfire in		
	underground coal mines.		(08 Marks)
		OR O	
6	Write short notes on:	(20)	
	a. Exploder		(08 Marks)
	b. NONEL blasting.		(08 Marks)
		Module-4	
7	a. Explain the procedure to b	e observed while transporting explosives in	bulk. What are the
	precautions to be observed of	during such operation?	(10 Marks)
	b. Discuss on "Hydrox".	West of the second seco	(06 Marks)
		OR	
8	What are the causes for accider	its due to blasting? Explain in detail the meas	sures to be taken to
	prevent such accidents.	2 1	(16 Marks)
		Module-5	
9	Explain the factors affecting roc	k breakage by blasting, with suitable example	S. (16 Marks)
		OR	(======================================
10	Write short notes on:		
	a. Vibrations due to blasting		(08 Marks)
	 b. Controlled blasting methods 	3.	(08 Marks)