B.E.(with Credits)-Regular-Semester 2012-Mining Engineering Sem V MN505 - Mining Machinery-II

	ages : ne : Thr		ours	* 3 9 9 3	GUG/W/16/3 Max. Marks		
	Notes	4	 Due credit will be given Assume suitable data wh Illustrate your answers w Marks are indicated in th 	erever neces herever neces	sary. essary with the help of neat sketches.		
1.	a)	State the applicability conditions of Blast hole drill and what are the major components of Blast hole drill machine.					
	b)	Exp	lain with neat sketch "Wagon	Drill".		10	
				O	R		
2.	a)	State the applicability conditions of coal drills. Discuss the safety features of coal drill. 8					
	b)	Exp	lain with neat sketch "Jumbo	drills".		8	
3.	a)	Exp	lain with neat sketch DERD s	hearer along	with its suitable layout.	10	
	b)	Con	npare the applicability condition	ons of shear	er and flow.	6	
				Ol	R		
4.		Wri	te short notes on.			16	
		i)	Shaft borer.	ii)	Stage loader.		
		iii)	Continuous miner.	iv)	TBMs.		
5. a) What is rocker shovel? Where it is used? Explain wi				ain with neat sketch Rocker shovel.	8		
	b)	How you will calculate the hourly capacity of L.H.D. (Assume your own conditions).					
				O	R		
6.		Discuss the applicability, advantages & disadvantages of the following.					
		a)	Shuttle car.	b)	Scraper.		
		c)	G.A.L.	d)	L.H.D.		
7.	a)	Con	npare shovel with wheel loade	er.		6	
	b)	Explain with neat sketch the walking mechanism of a Dragline.					
				Ol	R		

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a)	Describe with neat sketch scraper stat its applicability & different steps of scraper operation.			
b)	What type of jobs can be performed by Dozer.			
	Discuss the applicability, advantages and disadvantages of B.W.E. Also discuss the procedure to calculate its hourly capacity.			
	OR			
	Write short notes on:			
	i) Dredging equipment.	5		
	ii) Continuous surface miner.	5		
	iii) Signaling and communication system used in underground mining.	6		

		operation. b) What type of jobs can be performed by Dozer. Discuss the applicability, advantages and disadvantages of B.W.E. Also discuss procedure to calculate its hourly capacity. OR Write short notes on: i) Dredging equipment. ii) Continuous surface miner. iii) Signaling and communication system used in underground mining.		