B.E. Mining Engineering Fifth Semester MN505 - Mining Machinery-II

P. Pages: 2 Time: Three Hours			GUG/W/18/ * 1 3 0 4 * Max. Marl	W/18/1655 x. Marks : 80	
	Note	es: 1. 2. 3. 4.	Due credit will be given to neatness and adequate dimensions. Assume suitable data wherever necessary. Illustrate your answers wherever necessary with the help of neat sketches. Marks are indicated to the right margin.		
1.	a)	State the	e applicability conditions of coal drill. Discuss the safety features of coal drill.	8	
	b)	Explain	with neat sketch "Jumbo Drills."	8	
			OR		
2.	a)	Compar	re Electrically operated drill machine and Hydraulically operated drill machine.	6	
	b)	Explain	with neat sketch Jack-Hammer Drill along with its advantages & limitations.	10	
3.	a)	State ap	plicability condition of continuous miner along with its constructional features.	10	
	b)	Compar	re the applicability conditions of Shearer and plow.	6	
			OR		
4.	a)	Discuss	the various factors governing the Selection of Roadway drivage machines.	8	
	b)	Compar	re Raise borer & Shaft borer.	8	
5.	a)	Explain	Gathering Arm Loader along with its advantages and limitations.	8	
	b)		the applicability advantages & disadvantages of the following w.r.t U/G Shuttle car ii) Scraper	8	
			OR		
6.	a)	Explain	SDL with neat sketch. State its safety features.	8	
	b)	What is limitation	Rocker Shovel? Where it is used? Explain with neat sketch also state its ons.	8	
7.	a)		the applicability condition for Dragline with its advantages and limitations. Also at sketch showing different parts of Dragline.	10	
	b)	Compar	re Diesel shovel & Electrical Shovel.	6	
			O.B.		

8.	a)		at are the types of Dozer? State and explain the functions of Dozer in modern surface ing.	10
	b)	Exp	plain with neat sketch the Road Grader and its applications.	6
9.		Discuss the applicability, advantages & disadvantages of BWE. Also discuss the procedure to calculate its hourly capacity.		
			OR	
10.		Write short notes on-		
		i)	Communication System used in U/G mines.	6
		ii)	Dredging Equipment's.	5
		iii)	Spreader	5
