Total No. of Pages :	1	
Register Number:		

7889

Name of the Candidate:

DIPLOMA IN MINING ENGINEERING EXAMINATION DECEMBER 2013.

130 — MINING EQUIPMENTS				
Time: Three hours		ree hours	Maximum : 100 marks	
		Answer any FIVE questions.	$(5\times20=100)$	
		All questions carry equal marks.		
1.	Exp	lain any (2) of the following	$(2 \times 10 = 20)$	
	(a)	Side dump loaders.		
	(b)	Interlocks.		
	(c)	Mine blasting.		
2.	Stat	te and explain the types of mine surveying in detail.	(20)	
3.	Enu	merate the mine pumping system analysis.	(20)	
4.	Discuss any (2) of the following		$(2 \times 10 = 20)$	
	(a)	Mine communication		
	(b)	Need of drainage in mines.		
	(c)	Suspension gears.		
5.	Wha	at are the safety device used in mines? Explain in deta	nil. (20)	
6.	Exp	lain any two types of winding system in detail.	$(2 \times 10 = 20)$	
7.	Write short note on (4) of the following		$(4 \times 5 = 20)$	
	(a)	Shuttle cars.		
	(b)	Shaft fittings.		
	(c)	Head sheare skips.		
	(d)	Diesel locomotives in mines.		
	(e)	Intrinsically safe apparatus.		
8.	(a)	Explain how electrical power is distributed in mines	. (10)	
	(b)	State the advantages and uses of compressed air pov	wer. (10)	
