22109

	42: H	_	rs / 7	0 Marks	Seat	No.							
<i>Instructions</i> – (1)			s – (1)	All Questions	are Comp	oulsory.							
			(2)	Answer each	next main	Questic	n o	n a	a ne	ew	pag	e.	
			(3)	Illustrate your necessary.	answers	with nea	ıt sk	cetc	hes	wl	nere	ever	
			(4)	Figures to the	right ind	icate ful	1 m	ark	S.				
(5)			(5)	Assume suitable data, if necessary.									
			(6)	Use of Non-p Calculator is	C		tron	ic]	Poc	ket			
			(7)	Mobile Phone Communicatio Examination I	n devices	-							
												Mai	rks
1.		Atte	mpt any	FIVE of the	following	:							10
	a)	Writ	e the ful	lform of follow	ving organ	isation -	_						
		i)	IBM										
		ii)	DGMS										
	b)	Defi	ne –										
		i)	Pillar										
		ii)	Gallery										
	c)	Defi	ne –										
		i)	Air cros	ssing									
		ii)	Air locl	ζ.									

d) Write any two uses of mangnese.

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	e)	State the ingradients of high explosive.	viering
	f)	Draw prop support with its dimensions.	
	g)	Define stripping ratio.	
2.		Attempt any THREE of the following:	12
	a)	Enlist the types of entries to u/g mines and explain any one of them.	
	b)	Define terminology related to metal mining: Raise, Winze, Sill pillar and crown pillar	
	c)	Write role and function of CIMFR.	
	d)	Define firedamp, white damp, stink damps and black damp.	
3.		Attempt any THREE of the following:	12
	a)	Elaborate the functions of DGMS in Indian mining.	
	b)	Describe the wedge cut pattern of drilling.	
	c)	Explain splitting and slicing during depillaring operation, with a neat sketch.	
	d)	Elaborate the various conditions which favours the adoption of surface mining.	f
	e)	State various precautions white charging and firing of hole.	
4.		Attempt any THREE of the following:	12
	a)	Describe the following terms with neat sketches:	
		i) Stope	
		ii) Level Interval	
	b)	Classify the different types of detonator.	
	c)	Explain powder factor and detonator factor.	
	d)	Describe the check/log support with neat sketch.	

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Attempt any TWO of the following:

rope haulage.

5.

		mining method.					
	b)	Write the difference between prospecting and exploration.					
	c)	Elaborate the advantages and disadvantages of surface mining method.					
6.		Attempt any TWO of the following:	12				
	a)	State and explain various types of metalliferrous deposites.					
	b)	Illustrate various bench parameter's of surface mine.					
	c)	Draw a labeled sketch of Direct rope haulage and endless					

a) Explain various methods of dipillaring in board and pillar

Marks

12