B.E.(with Credits)-Regular-Semester 2012-Mining Engineering Sem III MN302 - Introduction to Mining Technology

P. Pages: 2 Time: Three Hours			 			GUG/W/16/3800 Max. Marks : 80	
	Note	s: 1. 2. 3. 4.	Assume suitable data illustrate your answers	en to neatness and adequate dimension wherever necessary. Is wherever necessary with the help of tion indicated on its right.			
1.	a)	Discuss	contribution of mining	in developing human civilization.		8	
	b)	How does mining contribute to Economic growth of any Nation.					
				OR			
2.		Define t	he following terms wit	h neat sketch wherever necessary.		16	
		i)	Mine	ii) Mineral			
		iii)	Shaft	iv) Level			
		v)	Winze	vi) Pillar			
		vii)) Hanging wall	viii) Cross cut			
3.	a)	Explain	in detail phases of Min	ing.		8	
	b)	What are to you.	e the different methods	of prospecting? Explain any one me	ethod in detail known	8	
				OR			
4.		Enlist various method of access to mineral leed with its suitability. Compare shaft with Incline as mode of access.					
5.	a)	What are mines?	e the various shapes an	d sizes of shafts which are used in u	nderground coal metal	4	
	b)	State & explain the factors which will affect the site selection of shaft.				6	
	c)	What is	temporary lining? Exp	lain with neat sketch.		6	
				OR			
6.		-	with neat sketch the ap	plicability conditions, advantages & king.	disadvantages of	16	

7.	a)	Classify the coal mining methods.			
	b)	What do you understand by the cyclic and continuous methods of mining & compare it.	6		
	c)	Explain in detail "Production Cycle" in case of U/G Coal Mining.	6		
		OR			
8.	a)	State applicability, advantages and limitation of longwall method of coal extraction.			
	b)	Compare opencast mining with underground mining.			
9.	a)	Explain with neat sketch conventional method of driving. A drift of 4.8 m x 3.5 m. Explain the following in detail.			
		i) Drilling, charging, stemming & firing.			
		ii) Ventilation			
		iii) SUPPORT.			
		OR			
10.		Explain with neat sketch Tunneling and Road heading machines used in Metalliferous & coal mines.			

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