B.E. Mining Engineering (CBCS Pattern) Sem-IV 4BEMN04: Mining Geology

	Pages :		Hours	GUG/S/19/11964 Max. Marks : 80)
	Notes	4	 All questions carry equal marks. Assume suitable data wherever necessary. Diagrams and Chemical equation should be given wherever necessary with the help of neat 		
1.			we an account of the Gondwana supergroup with reference to its distribusing ssification and economic importance.	oution, 16	5
			OR		
2.		Describe various principles of stratigraphy and add a notes on physiographic divisions of India.			6
3.			nat is a fault? Describe various types of fault in detail and add a notes portance in mining operation.	on their 16	5
			OR		
4.	a)	A sand stone bed in a mine is dipping at 1 in 5 along N 45° W. Find the directions which it apparent dip is 1 in 8. Give procedure scale 1 unit = 1 cm.			
	b)		a level ground a limestone bed is dipping at 25° West. Its outer is 160 methickness and vertical thickness. Write procedure scale 1 cm = 40 m .		3
5.		What are rocks? Describe Tabular classification of igneous rock in detail and add a note on structure of Igneous rocks.		and add a notes 16	5
			OR		
6.		Wri	ite short notes on :		
		a)	Classification of sedimentary rocks.	8	3
		b)	Agents of metamorphism.	8	3
7.		Des	scribe the formation of mineral deposits by the process of hydrotherma OR	al ore deposits. 16	5
8.		Wri	rite short notes on :		
0.		a)	Supergene sulphide enrichment deposits.	8	2
		b)	Indian coal fields.	8	
0		,			
9.			scribe the various zones of ground water in the roles that occurs below face. Explain aquifer, aquiclude and aquifuge.	the earth 16)
			OR		
10.		Wri	rite short notes on :		
		a)	Gravity method of geophysical prospecting.	8	
		b)	Electrical method of geophysical prospecting.	8	3
