## GBGS Scheme

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USN				15M	N35
	Third	Semeste	r B.E. Degree	Examination, Dec 2017/Jan 2018	

	-	Third Semester B.E. Degree Examination, Dec.2017/Jan.201	Q
		Elements of Mining Engineering	. 0
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77.			
I 11			arks: 80
	N	ote: Answer any FIVE full questions, choosing one full question from each mo	dule.
		Module-1	
1	a.	Write basic Geo-Technical investigation for mining.	(10 Marks)
	b.	Explain the different classification of mining methods.	(06 Marks
2	a.	OR Write note on selection of shaft for underground mining, type, size and location d	
	и.	write note on selection of share for underground minning, type, size and location d	etans. (10 Marks)
	b.	Write in detail on shaft location for deep seated mineral deposit by underground r	nining.
			(06 Marks
		Module-2	
3	a.	Write in detail the method of shaft sinking in loose and running soil area.	(10 Marks
	b.	Write the method of shaft sinking in highly water logged area.	(06 Marks
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,		OR	
4	а. Ь.	Write notes on different methods for widening and deepening of an existing shaft	(10 Marks)
	5.	Write the man power and equipments needed for widening and deepening of shaft	. (06 Marks
		Module-3	
5	a.	Write note on Drivage of Crosscuts from shaft to reach axe body by conventions	al methods
	1		(10 Marks)
	b.	Write note on the arrangements of ventilation for a long drive in a large mine.	(06 Marks)
		OR	
6	a.	Write notes on drivage of Raise by mechanized method.	(10 Marks
	b.	Show the drilling pattern for underground hard rock.	(06 Marks
		M-1-1-4	
7	a.	Module-4 Explain the different types of supports in mine working.	(10 Massler
,	b.	Write note on hydraulic supports in long drives.	(10 Marks) (06 Marks)
		Section 100 and 100 an	(00 marks
		OR CELL	
8	a.	Write note on Roof – stiches as mine supports in Wad ways.	(10 Marks)
	b.	Write note on Roof bolting as support in underground mine.	(06 Marks)
		Modulo 5	
9	a.	Write note on conventional method of Drilling in underground hard work mines.	(10 Marks
-		Write the applicability of Tunneling by Tunnel Boring machine.	(06 Marks
	Transfer land	The state of the s	(on mains)
		On	

## OR

- 10 a. Write different type of Transportation of muck in underground by conventional method. (10 Marks)
  - b. Write the advantages and limitations of Tunnel Boring machine. (06 Marks)

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