Seat No.:	Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## **BE - SEMESTER- III EXAMINATION - SUMMER 2015**

Subject Code: 132202		t Code: 132202 Date:	Date:02/06/2015	
Tir	ne: 0	ons: Attempt all questions. Make suitable assumptions wherever necessary.	l Marks: 70	
Q.1	(a) (b)	What are the important points considered for the site location of shaft? Explain: (1) Adit (2) Shaft (3) Incline.	07 07	
Q.2	(a) (b)	What are the factors affecting selection of drilling equipment? What is head gear? Describe various attachment of headgear.  OR	07 07	
	<b>(b)</b>	Describe shape, size, and gradient of tunnel.	07	
Q.3	(a) (b)	Describe various blasting patterns used for drifting What do you mean by trackless mucking?  OR	07 07	
Q.3	(a) (b)	Explain fast driving methods of tunneling using drill jumbos Explain: (1) Road header (2) Gathering arm conveyor	07 07	
Q.4	(a) (b)	Explain the different types of loading machine and their specific use Explain with sketch: Shaft centering arrangement.  OR	07 07	
Q.4	(a) (b)	Describe ventilation and drainage pattern in drifting.  Explain: load haul dump machine.	07 07	
Q.5	(a) (b)	Explain tunneling by using road header machine Explain merits and demerits of incline system v/s a shaft system.  OR	07 07	
Q.5	(a) (b)	What is the meaning of following terms? Explain it: [1] Cross cut, [2] Terlining of shaft.  Write short note on long hole raising with its applicability, merits and den		

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