Seat No.: _____ **Enrolment No._____**

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER–VI (NEW) - EXAMINATION – SUMMER 2016

Subject Code:2162202 **Date:06/05/2016**

Subject Name: Underground Metal Mining

Time: 10:30 AM to 01:00 PM **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Explain the present status of Indian metal mining industry.	**07**
	(b)	How selection of appropriate method of stoping done in metalliferous mining?	**07**
Q.2	**(a)**	Explain the methods of secondary breaking in brief.	**07**
	(b)	Explain shaft insets and plats.	**07**
		OR	
	(b)	Classify the working method in metal mines.	**07**
Q.3	**(a)**	What is ore bin? What are its advantages?	**07**
	(b)	Explain breast stop method in brief with diagram.	**07**
		OR	
Q.3	**(a)**	Explain Bord and Pillar method of working in metal mines.	**07**
	(b)	How working is carried in metal mine when ore body is wide?	**07**
Q.4	**(a)**	Explain in brief different raising methods.	**07**
	(b)	Explain the Underhand stoping method.	**07**
		OR	
Q.4	**(a)**	What are the different types of backfill in metal mining?	**07**
	(b)	Differentiate between pneumatic and mechanical methods of backfill.	**07**
Q.5		Write Snort Note on any two :	**14**

1. Block caving.
2. Transport and placement of hydraulic backfill.
3. Haulage and Dumping.
4. Explain Drift and Crown pillar with figure.
5. Explain the role of underground chambers and sumps.

****