Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER - VI (NEW). EXAMINATION - WINTER 2016

	•	ect Code: 2162202 Date: 22/10/2016 ect Name: Underground Metal Mining)
T	ime	: 10:30 AM to 01:00 PM ctions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain present status of Indian metal mining industries. Write note on construction of mine portals, shaft insets and plats.	07 07
Q.2	(a) (b)	Give the detail classification of stoping methods. Define orepass, chutes, ore-bin, and garages in detail. OR	07 07
	(b)	Define sups, underground chambers, grizzlies and waste bin in detail.	07
Q.3	(a) (b)	Explain conventional methods of secondary breaking. Describe mechanical methods of secondary breaking. OR	07 07
Q.3	(a) (b)	Describe open stopping method in detail with sketch. Explain electrical methods of secondary breaking.	07 07
Q.4	(a) (b)	Differentiate between overhand and underhand stoping method. Explain Vertical Crater Retreat method with neat sketch. OR	07 07
Q.4	(a) (b)	Write note on various type of supports used in underground mining method. Why back filling is required? Explain hydraulic back filling method with neat sketch.	07 07
Q.5	(a) (b)	Write note on Recovery and Dilution. Describe Haulage and Dumping in detail. OR	07 07
Q.5	(a) (b)	Describe Underground crushing in brief. Write note on material of backfill and their procurement.	07 07
