GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-5 • EXAMINATION – SUMMER 2015

	•	Code: 152202 Date:05/05/201 Name: Surface Mine Production	Date:05/05/2015	
Ti	Time:2.30PM-5.00PM Total Mark		70	
	1. 2. 3.	Make suitable assumptions wherever necessary.		
Q.1	(a) (b)	What is the basic information required for surface mining? Distinguish between open cast mining and Open pit mining.	07 07	
Q.2	(a) (b)	What procedures are followed for ground preparation for surface mining? Elaborate the major operations in surface mining? OR	07 07	
	(b)	What is the procedure for removal of overburden?	07	
Q.3	(a) (b)	How choice of mining method is done for surface mining? Describe the types of drilling equipments used in mining OR	07 07	
Q.3	(a) (b)	Explain different drilling patterns used in mining? What are the different types of transport system used in open cast mining?	07 07	
Q.4	(a) (b)	What is blasting? Explain coyote and secondary blasting. What is mine reclamation? Explain various types of reclamation for open cast mining.	07 07	
Q.4	(a)	OR Explain the methods of mine reclamation?	07	
Y .1	(b)	What factors are responsible for slope failure in mining?	07	
Q.5	(a)	 Write Note on any two : 1. Stability analysis. 2. Load haul system. 3. Spreaders and Reclaimers. 4. Front end loaders and Backhoes. 	14	
