Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII EXAMINATION - SUMMER 2016

Subject Code:172204		Code:172204 Date:18/05/203	Date:18/05/2016	
Su	bject	t Name:Mineral Processing		
Time:02:30 PM to 05:00 PM Total Ma		ks: 70		
Inst	tructio			
	1. 2.	Attempt all questions.Make suitable assumptions wherever necessary.		
		Figures to the right indicate full marks.		
Q.1	(a)	Explain the types of Crushers.	07	
	(b)	Write a short note on Forth flotation.	07	
Q.2	(a)	Draw the flow sheet of coal	07	
	(b)	Explain the Heavy media separation in brief.	07	
	(1.)	OR	0.5	
	(b)	Explain the different between Jaw crusher and Grayoratry crusher	07	
Q.3	(a)	What is Sizing? What are the different methods of sizing used in Laboratory?	07	
	(b)	Write a short note on jigging process.	07	
0.2	(a)	OR	07	
Q.3	(a) (b)	Draw the flow sheet of iron ores. What is grading? Classify the various zones created in ball mill during grinding.	07	
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Q.4	(a)	Define following terms: (1) Ore (2) Mineral (3) Crushing (4) Locking and	07	
	(b)	unlocking of ore. Write a short note on Thickening.	07	
	(0)	OR	07	
Q.4	(a)	What is the important of sampling and explain method used in ore dressing.	07	
	(b)	Give the classification of Industrial screens explain in brief.	07	
Q.5	(a)	Explain sieve analysis in brief.	07	
	(b)	Write merit of mineral processing.	07	
		OR		
Q.5	(a)	Define sample write its importance.	07	
	(b)	Explain the principal of Mechanical classifier. List out the types and explain in	07	
		brief any one mechanical classifier.		
