Seat No.:	Enrolment No.

		GUJARAT TECHNOLOGICAL UNIVERSITY	
Su	bjec	BE - SEMESTER-VIII (OLD) - EXAMINATION – SUMMER 2017 t Code:182202 Date:29/04/201	17
Ti	me:1		70
	2	Attempt all questions.Make suitable assumptions wherever necessary.Figures to the right indicate full marks.	
Q.1	(a) (b)	Describe the purpose of Powered Support. Explain selection of Powered Support in Underground Mines. Explain design and components of Powered Support with their principles.	07 07
Q.2	(a) (b)	Describe Horizon Mining Methods with their application and clean sketch. Explain Shield Support with their construction features and application. OR	
	(b)	Explain Chock Shield Support with their construction features and application.	07
Q.3	(a) (b)	Write short note on working o seams liable to spontaneous heating. Explain Underground Coal Gasification with their application. OR	
Q.3	(a) (b)	Describe in brief different problems face in Deep Mining. Explain Hydraulic Mining with their principle and application.	
Q.4	(a) (b)	Write advantages of Hydraulic Mining. Describe problems face in Thin Seam Mining. OR	07 07
Q.4	(a) (b)	Write note on Ore Mining by leaching. Explain recent developments in Underground Metal Mining method.	07 07
Q.5	(a) (b)	Describe various methods and equipments used in Thin Seam Mining. Make a list of different types of coal and explain all in detail. OR	07 07
Q.5	(a) (b)	Write note on working of seams under river and water lodgments. Explain Auger Mining Method in brief.	07 07
