Seat No.:	Enrolment No.
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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

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

Subject Code: 2162204 Subject Name: Mine Hazards			
		: 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)	List out types of fire extinguishers. Explain foam extinguisher with neat sketch. Write the different types of classes of fires.	07 07
Q.2	(a) (b)	Describe different stages of spontaneous combustion.  Explain the causes due to spontaneous heating in opencast mines and underground mines.	07 07
	<b>(b)</b>	OR Describe: Detection and Prevention of Spontaneous Combustion.	07
Q.3	(a) (b)	Explain reason behind surface fire and their prevention.  Write note on physical and chemical characteristics of coal liable to spontaneous heating.  OR	07 07
Q.3	(a) (b)	Explain reason behind underground fire and their prevention. Write note on Firefighting Organization.	07 07
Q.4	(a) (b)	Give the classification of reopening methods. Explain any one in detail. Give classification of dust sampling apparatus. Explain any one of it with sketch.	07 07
Q.4	(a)	OR  Describe various reasons behind formation of dust in underground mines and their effect on workers.	07
	<b>(b)</b>	Write note on function of Rescue Station.	07
Q.5	(a) (b)	Explain mine inundation and their precautionary measures.  Describe design and construction of water dams.  OR	07 07
Q.5	(a) (b)	Explain burn side boring apparatus in brief.  Describe causes and safety measures of Water Gas Explosion.	07 07

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