Seat No.:	Enrolment No
GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014	
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Subject Code: 162204 Date: 28-05-2014 **Subject Name: Mine Hazard** Time: 10:30 am - 01:00 pm **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 7 Q.1 (a) Listout carbon monoxide detectors and explain any two. (b) Define following terms 7 i) Stinkdamp ii) Whitedamp iii) Blackdamp iv) Afterdamp vi) Firedamp (a) Accidental causes of fire in mine. 0.2 7 (b) Prevention shoul be taken while dealing with undergrond mine fire. 7 (b) Define spontaneous heating, prevention shoul be taken while dealing with 7 seam liable to spontaneous heating. (a) Applications of dust sampling appartus. 7 Q.3 (b) Different methods of reopening. 7 OR 7 Q.3 (a) Explan fire fighting organization. (b) Describe stone dust barrier. 7 0.4 (a) Explain Coward's diagram. (b) Explain Proto-IV self contained breathing appartus with diagram. 7 OR 7 Q.4 (a) Explain coal dust explosion. (b) Explain Proto-V self contained breathing appartus with diagram. 7 (a) Explain Dewatering of old working. Q.5 7 (b) Shortnote: Rescue station. 7 OR Q.5 (a) Explain Chemical oxygen breathing appartus. 7

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(b) Problems of radiation in atomic mines.