## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE SEMESTER-IV • EXAMINATION – SUMMER-2015

Subject Code: 142202 Subject Name: Basic Mine Surveying			Date:01/06/2015
Time: 10.30AM-01.00PMTotal Marks: 70Instructions:1. Attempt all questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.4. Each question carry equal marks (14 marks)			
Q.1	(a) (b)	Write down the construction and uses of Miners Dial with ske Describe test and adjustment of miners Dial.	etch. 07 07
Q.2	(a) (b)	List out types of theodolite. Explain anyone with sketch. Write a short note on temporary adjustment of Theodolite. OR	07 07
	(b)	Write a short note on permanent adjustment of Theodolite.	07
Q.3	(a) (b)	Explain closing error with its adjustment. Write a short note on measurement of Vertical angles. OR	07 07
Q.3	(a) (b)	Write a short note on measurement of Horizontal angles. Describe theodolite traversing.	07 07
Q.4	(a) (b)	Explain measurement of depth of shaft with sketch. Write a short note on subsidence survey. OR	07 07
Q.4	(a) (b)	Explain various Levelling instruments. Describe additive and multiplying constants.	07 07
Q.5	(a) (b)	Write a short note on general procedure for field work. Explain characteristics of contours and interpolation of conto OR	07 ur. 07
	(a) (b)	Explain basic concept of triangulation surveying. Describe methods of contouring by level.	07 07

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