Seat No.		

Enrolment No.\_\_\_\_\_

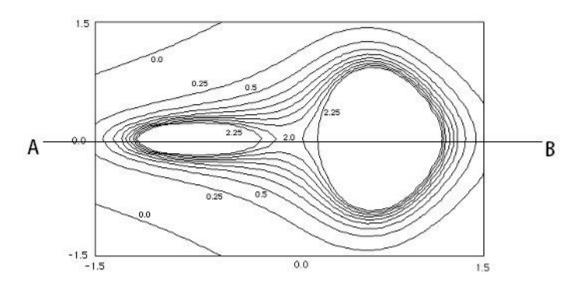
## GUJARAT TECHNOLOGICAL UNIVERSITY B.ARCH. - SEMESTER-III EXAMINATION – WINTER 2015

Subject Code: 1035006 Date:10/12/2015 **Subject Name: Surveying & Leveling** Time: 10:30am to 12:30pm **Total Marks:50 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. **Q.1** (a) Define Surveying. Explain its importance for Architects. 03 **(b)** Explain difference between Plans and Maps 02 Fill in the Blanks 05 1 meter = \_\_\_\_\_ feet i. ii. 1 feet = \_\_\_\_\_ inches 1 chain = \_\_\_\_\_ links iii. iv. 1 sq. yard = \_\_\_\_\_ sq. feet 1 sq. km. = \_\_\_\_\_ hectares v. Draw the neat sketch of the instruments necessary for 'Chain & Tape survey'. Explain their  $\mathbf{Q.2}$  (a) uses. OR What are different kinds of Ranging? Explain Indirect Ranging. 10 (a) Explain with sketches, the various instruments used in plane table surveying. Q.3 10 (a) OR Explain the importance of setting out works. 04 Q.3 (a) Discuss the method of achieving horizontal and vertical control in setting out works. **(b)** 06 Convert following WCB to RB 10 (a) i. 20°30' ii. 90°00' 179°12' iii. 208°42' iv. 327°03' v. OR Q.4 (a) Recall contour and mention three uses of contour plan with suitable example. 10 Q.5 (a) Following bearings were observed with a compass. Calculate the interior angles. 10

Line	Fore Bearing	
AB	60°30'	
BC	132°30'	
CD	35°30'	
DE	207°30'	
EA	303°30'	

OR

Q.5 (a) Draw a contour profile along line AB as shown in figure. Contour Interval 0.25 km



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