G	D 1
Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Architecture – SEMESTER - III • EXAMINATION – WINTER 2015

o		Date: 17/12/	/ 2015	
	•	Name: Surveying and Levelling	m	
	ie: 10 ruction	0:30 AM TO 12:30 PM	Total Marks	s: 50
Instr	1. 2. 3. 4. 5.	Attempt all questions. Make suitable assumptions wherever not Figures to the right indicate full marks. Use of programmable & Communication Use of only simple calculator is permitted English version is authentic.	n aids are strictly prohibited.	
Q.1	(a)	Explain the following terms: (Any five 1. Surveying 2. Levelling 3. Fore bearing and back bearing 4. Bench Mark 5. Height of Instrument (H.I.) 6. Contour 7. Contour Interval	;)	05
	(b)	Explain in brief: Classification of Surv	rey.	05
Q.2		figure.	chain surveying. Explain Chain with	10
			OR .	
		List out the instruments used for setting with neat sketch.	g out right angles & explain cross staff	10
Q.3	(a)	The following staff readings were observed successively with a level, the instrument was shifted after third, sixth and eighth readings: 2.215, 1.615, 0.985, 2.090, 2.765, 1.365, 0.605, 1.995, 1.055, 2.785 m. Calculate the Reduced Level (R.L.) of all the points by Rise and Fall method if the R.L. of the first point was 415.885 m.		08
	(b)	What is local attraction?		02
Q.4	(a)	The following fore bearings were observations and apply usual check. Line AB BC CD DA	Fore bearings 85° 30' 133° 00' 225° 30' 308° 00'	05
 (b) Describe with the necessary sketches, the characterion OR (b) Explain with sketches, the uses of contour maps. 		· · · · · · · · · · · · · · · · · · ·		05
		OR Explain with sketches, the uses of contour maps.		05
Q.5	(a)	Explain the following methods of com (i) Trapezoidal rule (ii) Simpson's rule	putation of area.	05

(b)	Explain the procedure of setting out of building foundation.	05
	OR	
(b)	Explain the application of remote sensing.	05
