Seat No.: _____

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Architecture – SEMESTER - III • EXAMINATION – WINTER 2015

| Subject Code: 3336203 Date: 17 | | | | 12/ 2015 | |
|---|----------------------------|--|-------------------------------------|----------|--|
| Tim | • | Name: Surveying and Levelling 0:30 AM TO 12:30 PM | Total Marks | : 50 | |
| 22002 | 1. 2. 3. 4. 5. | Attempt all questions. Make suitable assumptions wherever in Figures to the right indicate full marks. Use of programmable & Communicati. Use of only simple calculator is permitted. English version is authentic. | on 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 Sur | vey. | 05 | |
| Q.2 | | figure. | chain surveying. Explain Chain with | 10 | |
| | | List out the instruments used for setting out right angles & explain cross staff with neat sketch. | | 10 | |
| Q.3 (a) The following staff readings were observed successively instrument was shifted after third, sixth and eighth reading 0.985, 2.090, 2.765, 1.365, 0.605, 1.995, 1.055, 2.785 in Reduced Level (R.L.) of all the points by Rise and Fall methods the first point was 415.885 m. | | exth and eighth readings: 2.215, 1.615, 1.995, 1.055, 2.785 m. Calculate the | 08 | | |
| | (b) | What is local attraction? | | 02 | |
| Q.4 | (a) | The following fore bearings were obsinterior angles and apply usual check. Line AB BC CD DA | • | 05 | |
| | (b) | Describe with the necessary sketches, the characteristics of contours. OR | | 05 | |
| | (b) | Explain with sketches, the uses of contour maps. | | 05 | |
| Q.5 | (a) | Explain the following methods of con (i) Trapezoidal rule (ii) Simpson's rul | - | 05 | |

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