

GUJARAT TECHNOLOGICAL UNIVERSITY
B. PLAN. - SEMESTER-II • EXAMINATION – WINTER- 2017

Subject Code:1025502**Date:29/12/17****Subject Name: SURVEYING &PHOTOGRAMMETRY****Time02:30 PM TO 04:30 PM****Total Marks: 50****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1 (a)** Define following terms: **05**
1. Whole circle Bearing
 2. Plane surveying
 3. Fore Bearing
 4. True Meridian
 5. Remote Sensing
- (b)** Explain the principle of chain surveying. When is chain survey recommended? **05**
- Q.2 (a)** What could be the sources of error in compass survey? What are the precautions taken in compass survey? **05**
- (b)** Difference between Plane surveying and Geodetic surveying. **05**

OR

- (b)** Explain in detail: Contour, Objective of Contour and Uses of Contour map.
- Q.3 (a)** Explain method of Contouring. **05**
- (b)** Explain direct and indirect ranging method used in surveying. **05**

OR

- Q.3 (a)** Explain characteristics of Contour. **05**
- (b)** What is scale? Explain method of representing scales. **05**
- Q.4 (a)** Explain temporary adjustments of leveling. **05**
- (b)** Explain the accessories used in plane table surveying with figures. **05**

OR

- Q.4 (a)** Explain the instruments used in leveling and also explain different operations of leveling. **05**
- (b)** What are the methods of plane table surveying and what type of errors are computed while performing? **05**
- Q.5 (a)** Convert the given angles from Quadrantal Bearing to Whole Circle Bearing: **05**
1. S 34° E
 2. N 56° W
 3. S 63° W
 4. S 45° W
 5. N 65° E
- (b)** Explain Photogrammetric, Aerial Photogrammetric and Terrestrial Photogrammetric. **05**

OR

- Q.5 (a)** Explain in detail: Global Positioning System. **05**
- (b)** Describe the Uses of GPS and GIS. **05**
