Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

BPLAN- SEMESTER– 2 EXAMINATION – SUMMER 2016

Subject Code:1025502 **Date: 30/05/2016**

Subject Name: SURVEYING &PHOTOGRAMERTRY

Time:10.30AM-12.30PM **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**

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