

GUJARAT TECHNOLOGICAL UNIVERSITY
BPLAN – SEMESTER II • EXAMINATION – SUMMER 2015

Subject Code: 1025502

Date: 30/05/2014

Subject Name: SURVEYING AND PHOTOGRAMMETRY

Time: 10.30am-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)** Draw conventional symbols. **06**
1. Contours
 2. Railway
 3. Building
 4. Stations
 5. Pine Tree
 6. Sand Pit
- (b)** Define following terms: (Any Four) **04**
1. Surveying
 2. Plane Surveying
 3. Geodetic Surveying
 4. Survey Stations
 5. Survey Lines
 6. Level Surface
- Q.2 (a)** Give classification of survey **05**
- (b)** What is scale? Explain method for representing scale. **05**
- OR**
- (b)** What is local attraction? How to detect it? **05**
- Q.3 (a)** Write the designation of bearing? Explain it with figure. **05**
- (b)** Give difference between surveyor's and prismatic compass. **05**
- OR**
- Q.3 (a)** Explain Intersection, the method of plane tabling. **05**
- (b)** Explain characteristics of contours. (Any five) **05**
- Q.4 (a)** Give advantages and disadvantages of plane tabling. **05**
- (b)** What is the plane tabling? Name the instruments used for it. **05**
- OR**
- Q.4 (a)** What is GPS? Give introduction and types of GPS. **05**
- (b)** What are the applications of GPS? **05**
- Q.5 (a)** Explain "By cross section", the method of locating contours. **05**

(b) Define following terms:

05

1. Contours
2. Contour line
3. Horizontal line
4. Level line
5. Bench mark

OR

Q.5 (a) Explain the following terms:

05

1. Photogrammetry
2. Aerial photogrammetry
3. Terrestrial photogrammetry
4. Total station
5. Remote sensing.

(b) Explain Kinds of errors in surveying.

05
