

- Q.28 Define contour interval and horizontal equivalent
- Q.29 What are the uses of theodolite
- Q.30 Name equipment used in plane table survey
- Q.31 What are the causes of local attraction
- Q.32 Write short note on Total station
- Q.33 Differentiate between whole circle bearing & reduced bearing
- Q.34 Define back sight and fore sight
- Q.35 What do you understand by orientation in plane table survey

#### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain with neat sketch the construction of dumpy level
- Q.37 Name various method of plane table survey explain any one in detail
- Q.38 The following consecutive readings were taken. The level was shifted after 4th, 7th and 10th reading . The first reading was taken at a B.M of 100.00m . Calculate R.L of all point by any method.  
1.520, 0.965, 1.475, 1.545, .425, 2.445, 1.715, 1.620, 1.915, .860, 1.790, 1.365, 1.135.

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### 3rd Sem / Arch Subject:- Surveying / Surveying - I

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The length of one link is  
a) 20 cm                      b) 25 cm  
c) 30 cm                      d) 35 cm
- Q.2 The alidate provided in surveying  
a) chain survey              b) compass survey  
c) Levelling                  d) Plane table survey
- Q.3 The bearing of a line in the direction of program of work is  
a) Forward bearing        b) Backward bearing  
c) Both a & b                  d) All
- Q.4 The 2nd quadrant are represented by letter  
a) N-E                          b) S-E  
c) S-W                          d) N-W

Q.5 The Principle of Chain survey is to divide the area into

- a) Traverse                      b) Triangle
- c) open traverse              d) none

Q.6 A 20m chain have links

- a) 100                              b) 150
- c) 200                              d) 250

Q.7 Field work is done in

- a) Chain survey              b) Compass survey
- c) Plane table survey      d) All

Q.8 The least count of telescopic staff is

- a) 10 mm                      b) 5 mm
- c) 15 mm                      d) 20 mm

Q.9 The B.M fixed by state govt.

- a) G.T.S                      b) Permanent B.M
- c) Temp. B.M              d) All

Q.10 Local attraction is due to

- a) Key                              b) Electric pole
- c) Iron ore                      d) All

## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Define Compass Survey

Q.12 Define Back bearing

Q.13 Define B.M

Q.14 Define horizontal equivalent

Q.15 Reduced Bearing is measured with \_\_\_\_\_ compass

Q.16 Alidade is used to \_\_\_\_\_

Q.17 Define fore sight.

Q.18 Define Magnetic meridian

Q.19 Define change point

Q.20 Line ranger is used for \_\_\_\_\_

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 What is the purpose of surveying

Q.22 Name various instrument used in survey.

Q.23 What is the principle of chain surveying.

Q.24 What are the sources of error in chaining.

Q.25 What is the purpose of levelling

Q.26 Name various step taken in temporary adjustment of dumpy level

Q.27 Differentiate between fore and back bearing