

Q.29 Write Simpson rule for computation of area of regular figure.

Q.30 Write short note on rise and fall method.

Q.31 Define certain interval and horizontal equivalent.

Q.32 Write short note on Auto level.

Q.33 What are the uses of theodolite.

Q.34 Write short note on corrections to chain length.

Q.35 What are the uses of prismatic compass.

#### 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 and working of prismatic compass.

Q.37 Name various method of plane table surveying. Explain any one in detail.

Q.38 The length of line measured with 30 m chain was found to be 403 m. The true length of the line was 400m. Find the length of chain used.

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**Branch : ARCH**  
**Subject:- Surveying**

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) 30 cm
- c) 25 cm                      d) 35 cm

Q.2 The B.M. fixed at the end of the day's work

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

Q.3 A compass consist of

- a) graduated circle        b) magnetic needle
- c) Line of sight            d) All above

Q.4 1st quadrant are represented by letter

- a) N-E                        b) S-E
- c) S-W                        d) N-W

Q.5 Sources of local attraction are

- a) iron ore                    b) electric pole
- c) workshop shed          d) All above

- Q.6 The least count of levelling staff is  
 a) 5 mm                              b) 10 mm  
 c) 6 mm                              d) 15 mm
- Q.7 G.T.S Bench mark value are taken above mean sea level at  
 a) India                              b) Karachi  
 c) Kolkata                              d) Bombay
- Q.8 field work and official work are done simultaneously in  
 a) chain survey                      b) compass survey  
 c) Plane table survey              d) All
- Q.9 A 30m. chain have links  
 a) 100                              b) 150  
 c) 200                              d) 250
- Q.10 U-fork and plumb-bob are required for  
 a) chain Survey                      b) Plane table Survey  
 c) Compass Survey                  d) All

### SECTION-B

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

- Q.11 Define chain Survey  
 Q.12 Define Fore bearing  
 Q.13 Define reduce level

- Q.14 Define certain interval  
 Q.15 W.C.B are measured with \_\_\_\_\_ compass  
 Q.16 Line ranger is used for \_\_\_\_\_  
 Q.17 Define ranging  
 Q.18 The object of surveying is to prepare \_\_\_\_\_ of area.  
 Q.19 The sum of interior angle of closed transverse is \_\_\_\_\_  
 Q.20 Define Back sight.

### SECTION-C

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

- Q.21 Give classification of survey based on instrument.  
 Q.22 What is the purpose of chain surveying.  
 Q.23 Write short note on errors in chain survey.  
 Q.24 Define magnetic meridian and true meridian.  
 Q.25 What procedure is adopted in selling the prismatic compass.  
 Q.26 What do you understand by bench marks.  
 Q.27 What is the purpose of plane table survey.  
 Q.28 What do you understand by orientation in plane table survey.