

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain with neat sketch the construction and working of Prismatic compass.
- Q.24 The following are the successive staff readings were taken by level 0.985, 1.105, 1.125, 1.170, 1.080, 0.795, 1.165, 1.125, 1.010, 1.075, 1.225. R.L of station A = 87.125 m. The instrument is shifted after 5th and 8th reading. Enter the reading in the level book and work out the reduced level by collimation method. Also apply the Arithmetical check.
- Q.25 Name the various accessories of the plane table. What are their functions?

## 2nd Sem / Architectural Assistantship

**Subject : Surveying**

Time : 3 Hrs.

M.M. : 60

## SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 The curvature of Earth is ignored in \_\_\_\_\_
- a) Geodetic surveying      b) Plane surveying
- c) Chain Surveying      d) Compass surveying
- Q.2 F.B. and B.B should differ by \_\_\_\_\_
- a)  $90^\circ$       b)  $270^\circ$
- c)  $180^\circ$       d)  $36^\circ$
- Q.3 Zero is marked at \_\_\_\_\_ in case of prismatic compass.
- a) North      b) South
- c) West      d) East

- Q.4 Fore sight is \_\_\_\_\_ Reading of the setting of level.
- a) First                              b) Middle  
c) Last                                d) Zero
- Q.5 Inaccessible points may be located by \_\_\_\_\_ method.
- a) Radiation                        b) Resection  
c) Traversing                       d) Intersection
- Q.6 U-fork and plumb - bob are required for centering in
- a) Chain Surveying  
b) Plane table surveying  
c) Compass surveying  
d) All

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Main object of surveying is to prepare a \_\_\_\_\_
- Q.8 Define Total station.
- Q.9 Define Magnetic Dip.
- Q.10 Levelling should always start from a \_\_\_\_\_

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- Q.11 The effect of refraction is to \_\_\_\_\_ The staff reading.
- Q.12 The use of field book is \_\_\_\_\_ in plane table survey.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Define surveying & what are the purpose of surveying.
- Q.14 Give classification of surveying based on the instrument used.
- Q.15 Differentiate between Whole circle bearing and Quadrantal bearing system.
- Q.16 Give the advantages and disadvantages of compass traversing survey.
- Q.17 What is levelling staff? Give the name of various types of leveling staff.
- Q.18 What do you understand by orientation in plane table survey.
- Q.19 Explain the intersection method of plane tabling.
- Q.20 What are the uses of Theodolite?
- Q.21 What are the objectives of a GIS?
- Q.22 What is the Bench Mark? Give their classification.

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