

SCHOOL OF PLANNING AND ARCHITECTURE, VIJAYAWADA

SEMESTER END EXAMINATIONS (SUPPLEMENTARY), DECEMBER-2015

B.ARCH, I YEAR I SEMESTER

LANDFORMS SURVEY & ANALYSIS (10110104)

Maximum Marks – 50

Time – 2.00 Hours

- a) Answer any *Two out of 1 to 4* questions.
b) Question No. 5 is compulsory and answer any four sub questions.
c) Scientific calculator is allowed.

- Q1. a) Define surveying? And state purposes of survey. (10M)
b) The object of surveying is to prepare (1M)
a) Map b) Plan
c) Both a & b d) None of the above
c) Which of the following engineering projects need surveying. (1M)
a) Water supply b) Irrigation schemes
c) Buildings & Bridges d) All the above
d) The surveyor should always start (1M)
a) From whole to part b) From part to whole
c) Both a & b d) None of the above
e) One Yard = _____ Feet (1M)
f) One Acre = _____ sq. Yards (1M)
- Q2. a) State the types of chains and briefly explain each one. (5M)
b) Define Ranging and explain the process of Direct Ranging by eye. (10M)
- Q3 a) List the parts of Prismatic Compass.
b) The Bearing of the sides of a closed Compass ABCDEA are as follows

Side	FB	BB
AB	$107^{\circ} 15'$	$287^{\circ} 15'$
BC	$22^{\circ} 00'$	$202^{\circ} 00'$
CD	$281^{\circ} 30'$	$101^{\circ} 30'$
DE	$181^{\circ} 15'$	$1^{\circ} 15'$
EA	$124^{\circ} 45'$	$304^{\circ} 45'$

Compute the Interior angles of the Traverse and apply check.

P.T.O

- Q4. a) Explain Temporary adjustments of a Dumpy level. (5M)
b) The following consecutive readings were taken with a dumpy level 1.895, 1.500, 1.865, 2.570, 2.990, 2.020, 2.410, 2.520, 2.960, 3.115. The level was shifted after 4th, 6th and 8th readings. The RL of the first point was 30.500m. Rule out a page of a level field book and fill all the columns. Use Rise and Fall method and apply the usual check. (10M)

- Q5. Answer any four of the following (4x5= 20M)
- i) Sketch the conventional signs for the following
a) Chain line b) Building (Pukka)
c) River d) Main Station
e) North Line
 - ii) Explain the Local attraction? How do you detect local attraction.
 - iii) Define the following terms
a) Reduced level b) Bench mark
c) Back sight d) Fore sight
e) Intermediate sight
 - iv) State the parts of the theodolite.
 - v) Explain any five characteristics of contour.
 - vi) What are the uses of Total Station in Surveying.

