

Student's Name: _____

29.002 SURVEYING II

Practical Test: 19th October, 1982

1st Exercise: From _____ To _____ = _____ Min.

Centring
(mm)

Levelling
(grad)

Mark

2nd Exercise: From _____ To _____ = _____ Min.

Measure a horizontal angle (one full arc) between two Wild targets first, and then measure the zenith distance to the target on the left (viz. "A"). Left target = A; right target = B.

Book all data on the table below and make all necessary reductions.
POCKET CALCULATORS ARE BANNED.

DISTANCE MEASUREMENT
(ZENITH DISTANCE MEASUREMENT)

STATION NO.: _____
NAME: _____

Date: _____ Locality: _____ Time: _____ Instrument: _____ No.: _____

Observer: _____ Booker: _____ Weather: _____

Target	F.L.	F.R.	Mean (FL + FR)	Red Mean (z)	Grand Mean (Mean z)	H.I.	H.I.	Remarks: st. dev.; time, ...

Delta Angle
(")

Delta Z
(")

Booking

Mark

3rd Exercise: From _____ To _____ = _____ Min.

Take stadia readings to two staves, C and D. Two full observations with different staff readings must be taken to both staves. Book on form below.

INSTRUMENT STN. & HT. OF INST.	STAFF	STADIA HAIRS		ZENITH DISTANCE	D = 100s
		MIDDLE	LOWER		
			UPPER		
	C				
	C				
	D				
	D				

Compute the reduced level of the right staff (D), if a R.L. for the left staff (C) is given as 35.00 m. All computations in table below. Compute to mm.

INSTRUMENT STN. & HT. OF INST.	STAFF	V = 100s $\sin z \cos z$	= V - MIDDLE HAIR	COLL. HEIGHT	R.L. (m)
	C				35.000
	C				
	D				
	D				

Delta C (V-M) mm

Delta D (V-M) mm

Mark

Delta R.L. D mm

Comps

TOTAL MARK