

other, by measuramens of horizontal and vertical distances, angles and directions. relative positions on, above on bonath the surface of the Earth, with hespect to each sely, the art and sceence of map making. It is defined as on art to determine the Common Terminologies Durveying is normally regarded as the most fundamental base, on more preci-

2. Detume- It refers to any arbitary assumed level surface on line from which vertical Level sumtace = It refers to any surface parallel to the mean spheroidal surface distances on elevations are measured. of the Easth. How line contained in the level surface is termed as

3. Hench mark = It refers to a fixed reference point of known elevation above sea level. be of four types; vez., as great Trigonometric survey bench Mark (G.T.S.B.M.). Depending upon the permenery and precision bench mark may b) Desimenent Bench mask.

c) Assbitary Bench Mark.

d) Tempohaby Banch Mark.

4. Line of collimation: It is the line passing through the intersection of the cross hairs to the oftenal centre of the object glass

of the telescope.

6. Leveling - develing may be defined as the ant of eletermening the relative heights the back sight of the new set-up are observed. on elevations of points on objects on the Earth surface. It clears with the

measurement en a vertical plane.

7. Back sight: It is a staff reading taken in a point of known elevation, as It is the first staff reading taken after the level is set up and levelled on a bench mark or a change point. It is called a blue sight.

9. Intermediate sight = It is a stiff reading taken on a point of unknown 8. Nome sight = It is a stuff reading on a point, whose elevation is to be deter-It is the last stuff reading denoting the shifting of the enstrument. mened as on a change point. It is also called a minus sight.

10. Parallax - It is the aperent movement of the image relative to the cross of the deaphragm. Tains when the emage formed by the objective closs not fall in the plane elevation between backsight and forosight

ned with a chain on a take and with an angellar enstrument respectively. 1. Wavensing - A traverse survey is one in which the frame wark consist of a A traverse may be classified as - as closed traverse, and series of connected lines, the lenths axial disrections of which are magnib) Open traverse.

the opposite dienection is known as the Book booking (B.B.). The Jone and back bookings progress of the survey es called the tone or forward booking (F.B.), while its booking in of a line differ enactly by one 180: 12. None & Back bearing = Every line has two bearings. one observed at each end of the line. The booking of a line in the discretion of the

13. Closing corror - It is the distance by which the end of a traverse falls short in coinciding whith the starting point of the travelyse.

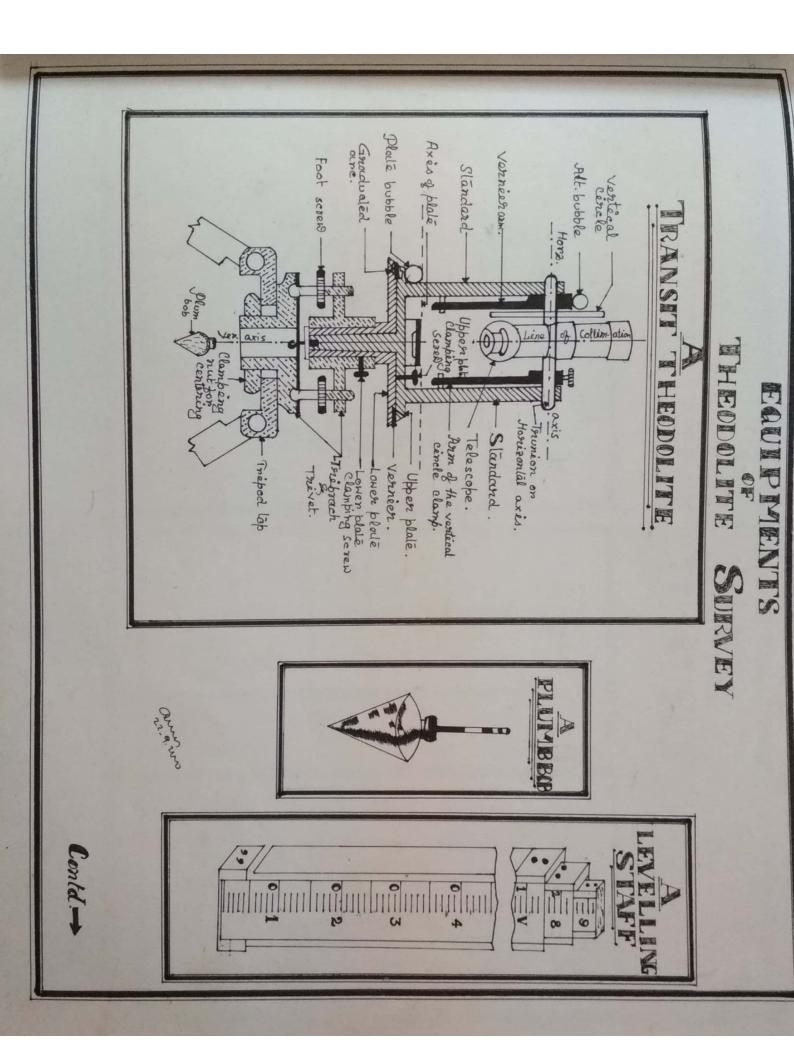
14. Local attraction: It refers to the deflection of a magnetic neodale consect by external disturbances included by the proximity of magnetic

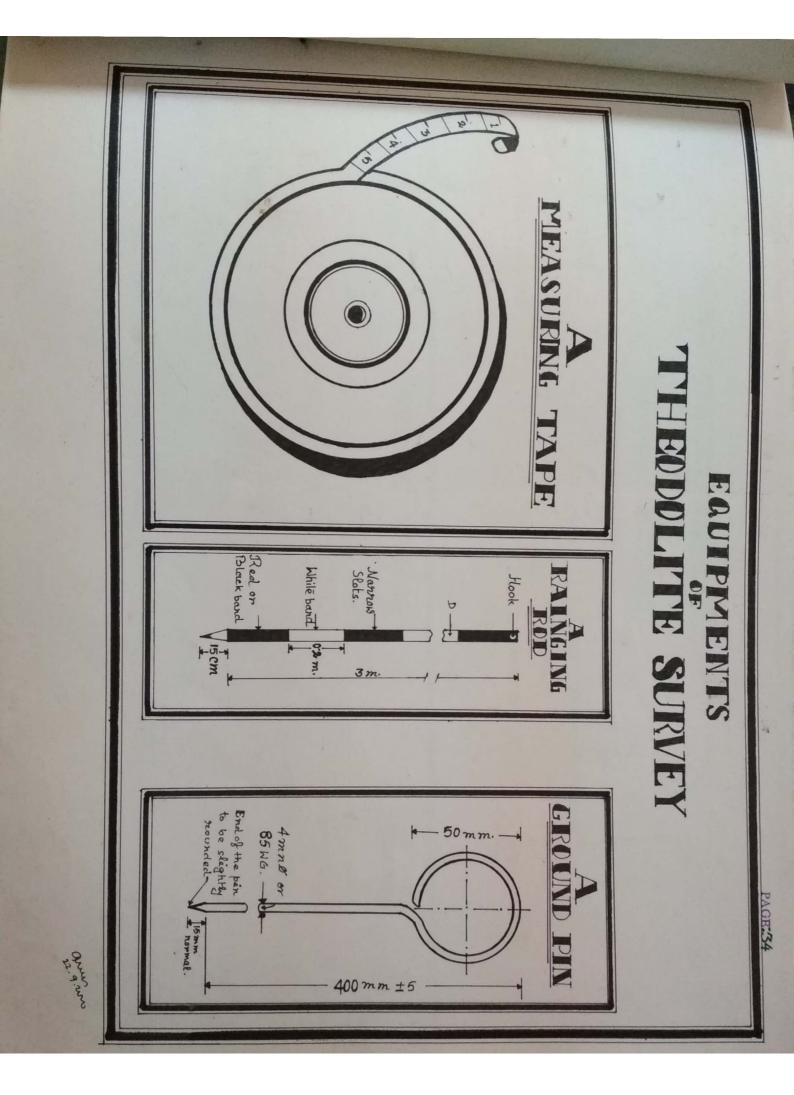
Bubbanees.

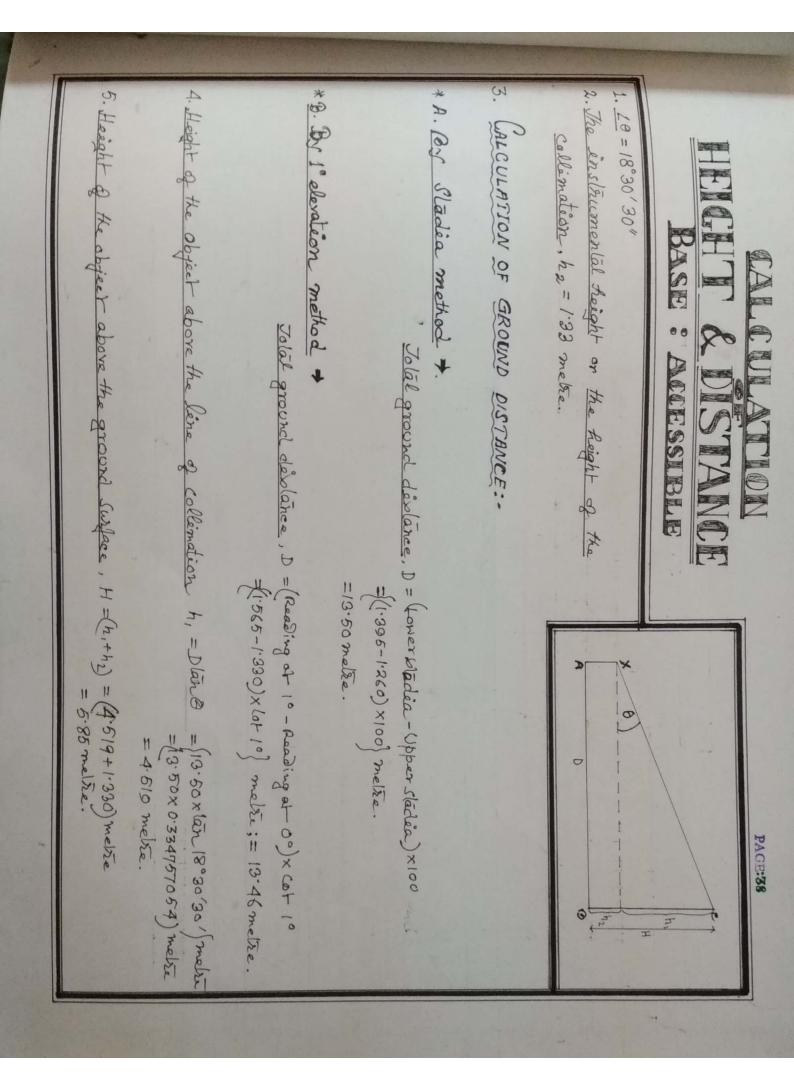
defended as the line of intersection of a level surface with the surface of the 15. Contouring - The elevations and dephassions of the surface of the ground are shown on a map by means of contourlines. I contour may be

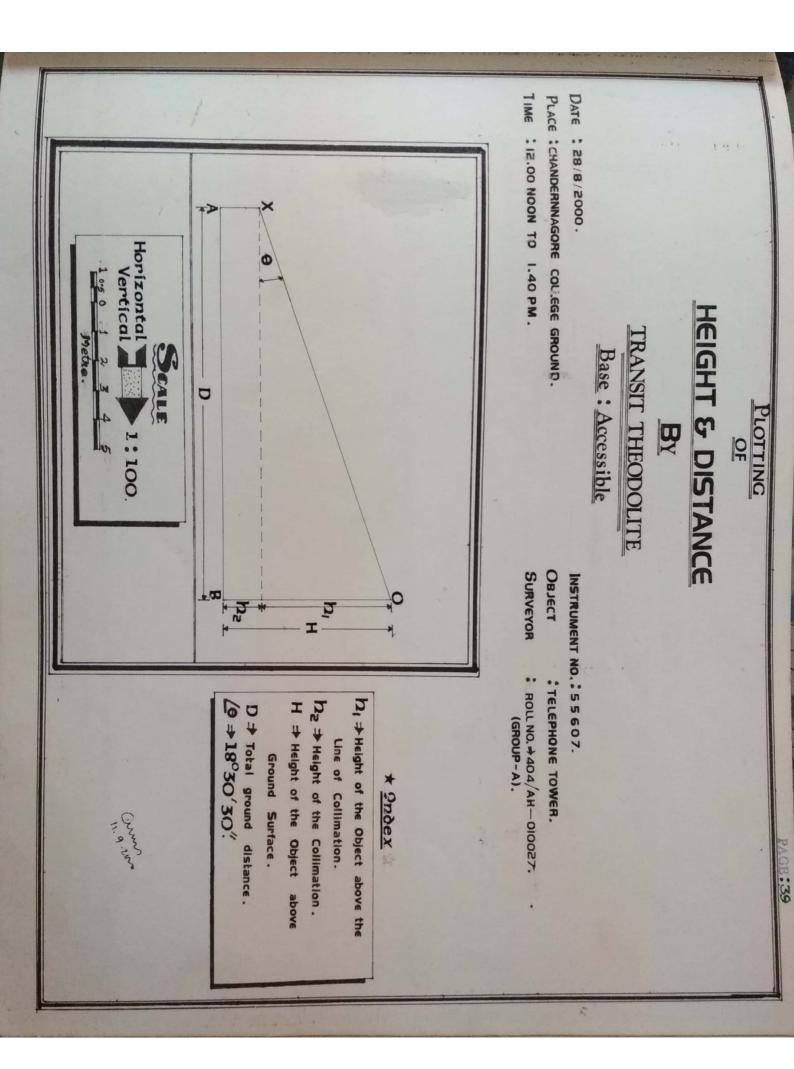
ex termed as , texisontal equivalent. contour enterval, and the Resissontal distance between any two considerive contour or contour. The vertical distance between two consecutive contours is called the datum subject. The line joining these points on the map is called contour lines All faints on any one content have the same elevation above the

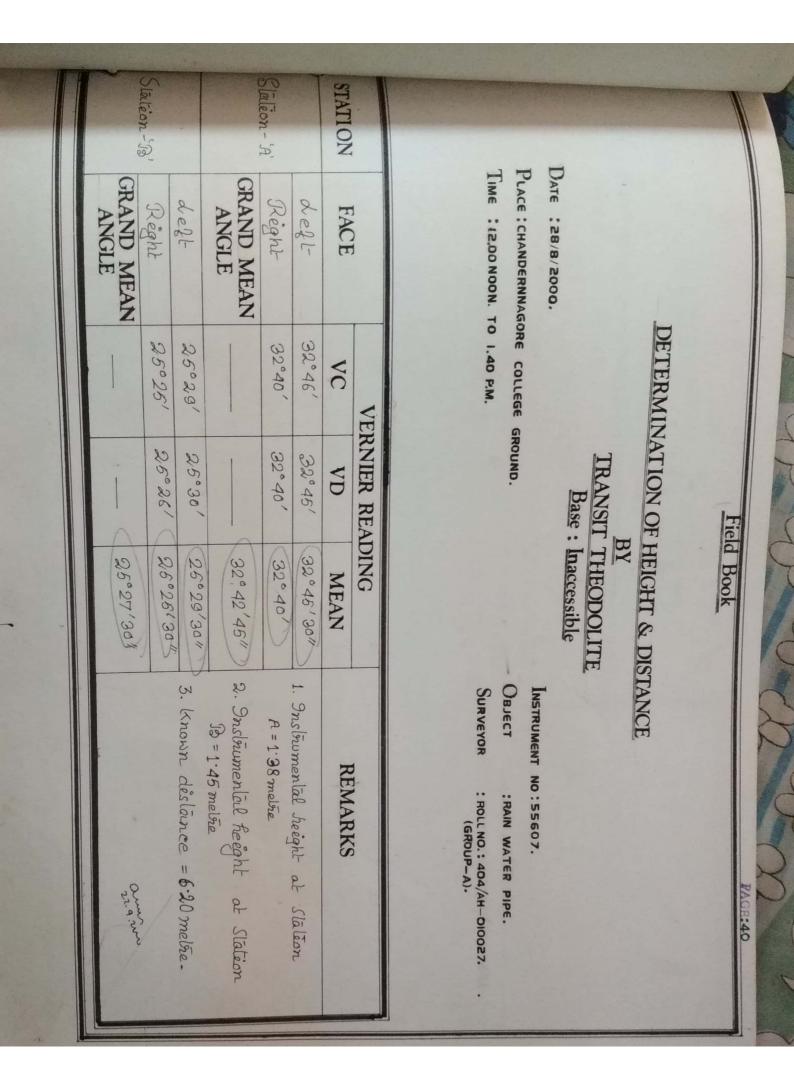
nt of field work is greater. otherwise the contours will to close to each other. It the interval is smaller the amou-The more broken the ground, the greater must be the contour enterval;

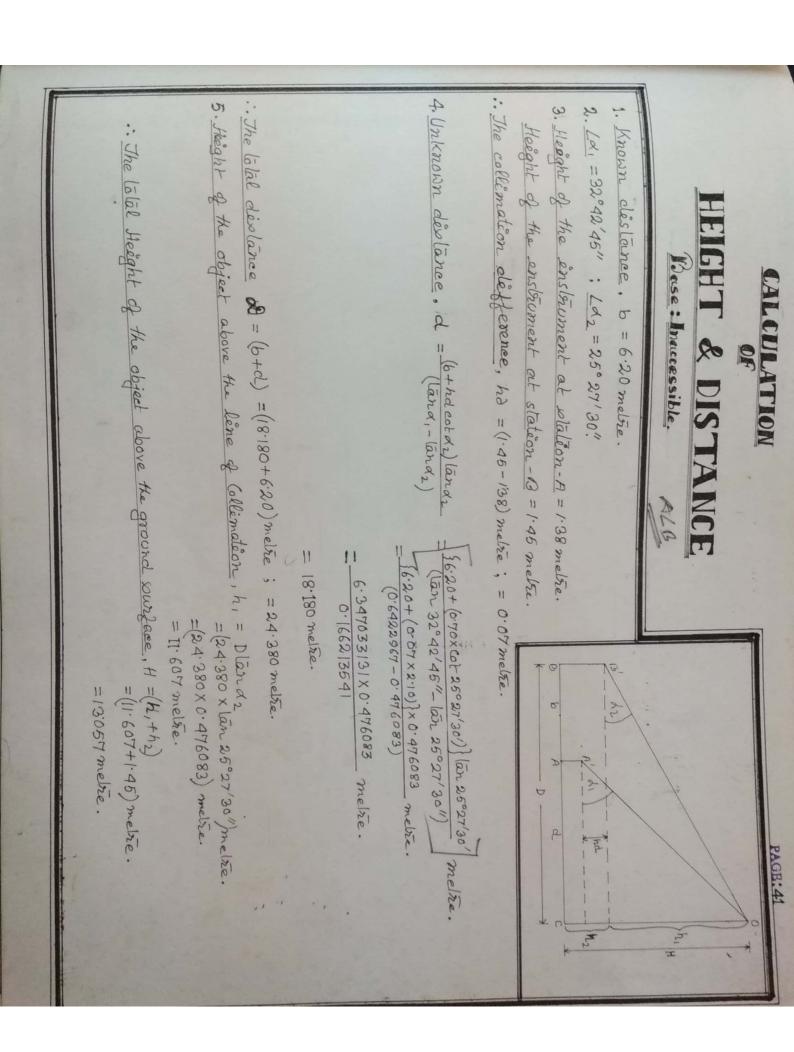


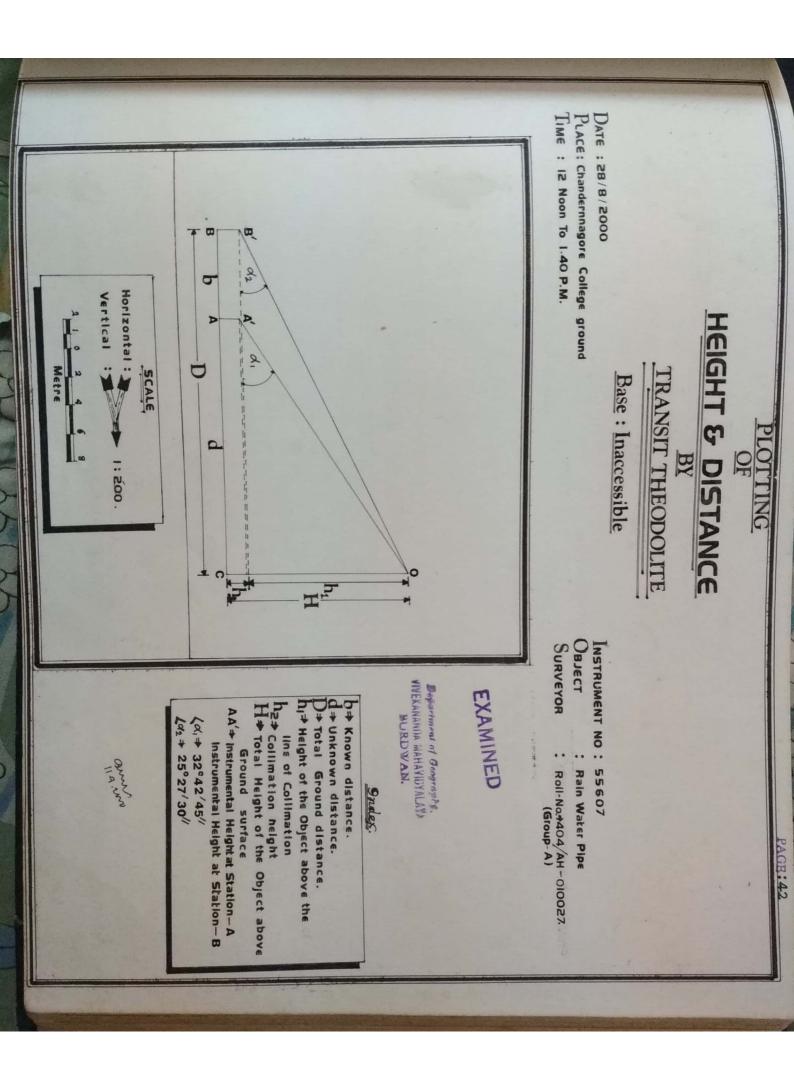




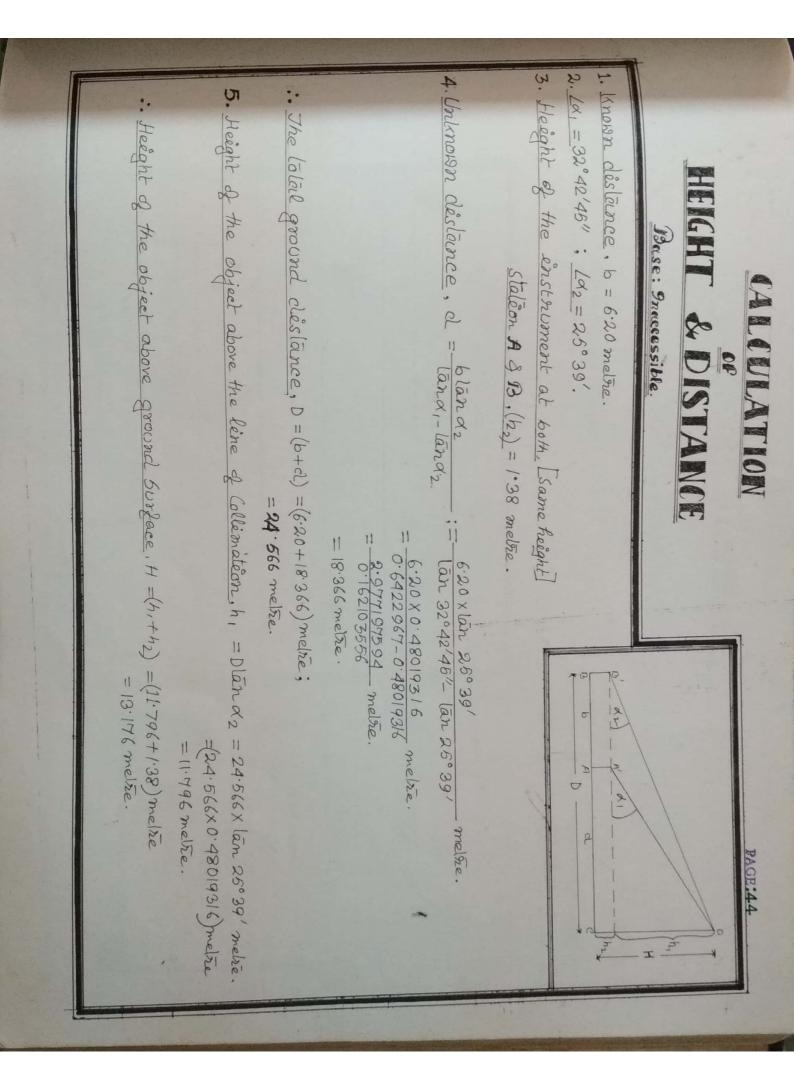


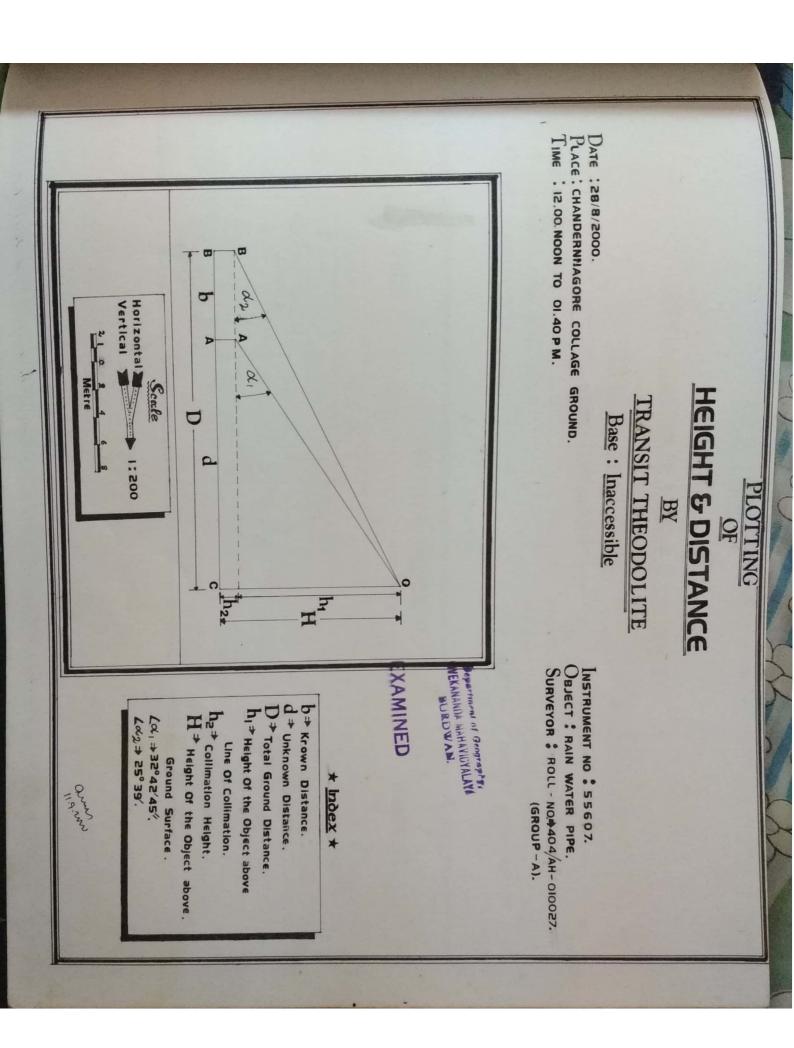






TRANSIT THEODOLITE Base: Inaccessible Place: Chandernnagore college ground. Time: 12 noon to 1.40 p.m. Time: 12 noon to 1.40 p.m. Time: 12 noon to 1.40 p.m. VERNIER READING FACE VC VD ANGLE 32°46′
TRANSIT THEODOLITE Base: Inaccessible E:28/8/2000. ACE:CHANDERNINAGORE COLLEGE GROUND. ME:12 NOON TO 1.40 P.M. VERNIER READING FACE VC VD Acelt 32°46′ 32°46′ 32°46′ 32°46′ 32°40′
TRANSIT THEODOLITE Base: Inaccessible Place: Chanderninagore college ground. Time: 12 noon to 1.40 p.m. Time: Noon to 1.40 p.m. VERNIER READING FACE VC VD Active 32°46′ 32°46′ 32°46′ 32°46′ 32°46′ 32°40′ 32°
TRANSIT THEODOLITE Base: Inaccessible Date: 28/8/2000. Place: Chandernnagore college ground. Time: 12 noon to 1.40 p.m. VERNIER READING FACE VC VD Acelt 32°46′
TRANSIT THEODOLITE Base: Inaccessible DATE :28/8/2000. PLACE: CHANDERNINAGORE COLLEGE GROUND. TIME: 12 NOON TO 1.40 P.M. VERNIER READING FACE VC VD Aeght 32°46′ 32°40′
TRANSIT THEODOLITE Base: Inaccessible Date: 28/8/2000. Place: Chanderninagore college ground. Time: 12 noon to 1.40 p.m. VERNIER READING FACE VC VD Action 32°46′ 32°45′
TRANSIT THEODOLITE Base: Inaccessible Date :28/8/2000. Place: Chandernnagore college ground. Time: 12 noon to 1.40 p.m. VERNIER READING FACE VC VD 1
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TRANSIT THEODOLITE Base: Inaccessible AGORE COLLEGE GROUND. TO 1.40 P.M.
TRANSIT THEODOLITE Base: Inaccessible
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TRANSIT THEODOLITE Base: Inaccessible





	ANGLE 25° 45' 15"	25°45′30″	IEAN 32°42′45″	32°40′ 32°40′ 32°40′	Left 32°46' 32°45' 32°45'30"	VC VD MEAN	VERNIER READING
ar a war	S" EXAMINE	01 3. Known destance = 6:20 mother			1. Instrumental Reight at		REMARKS

