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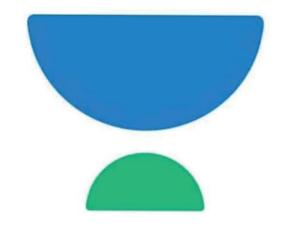
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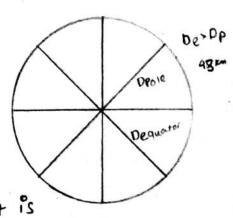
& SURVEY &

\$ Fundamental & Sweezing is the process of determining the peterist position of point on, anove a nelow the swiface of the earth. by & means of pirect or indirect measurment of "pistaniti" "pincetion" 2 "FLEVATION"

It may also be teremed as process of Establishing the point by predetermined angular or belinear measurment

* Due to the curvature of the earth the sweeping is puimiary classified into two

Note? earth is OBLATE SPHEROID CHere spheroid is obtained by Rotaring and ellipse about its one of the axis) Since the polar Dia of earth is Approx 42.95 km smaller then equitorial oir it is termed as OBLATE SPHEROID



- 1 PLANE SURVEY
- (3) GEODATIC SURVEY
- 1) PLANE SURVEY ? It is Type of surveying in which the curvature or the earth is not consider or mean surface of the earth 9s considered to be plancer.
 - It's suitable to be used a small Arra of work
- It's consider for suitable for an Area less than 250 Km2.
- au the line's & triangle formed owing survey in this case will be consider as plane line & plane triangle.

level line es consider to be straight line e plumb lines (line represented by freely suspended plumb book) we considered to be parallel to each other at diff

Olanas

- (2) GEODATIC SURVEY? that Type of sweeping in which the shape of the earth is taken into consideration
- Hore all line lying in the subtelle are lined & triungle are spherical triangle
- -> It's suitable to be used when Area of survey is large (Generally - 250 Km²) and High Degree of precision is require
- others survey sum of all Phternal angle of striangle should be >180
- * This survey is none by department of national survey of India to establish the control points. confich are taken as retrence point for masuring other point incompati in plane survey.
 - Notes for any triangle with area 1955 km², sum of interior angle would be Just 1" (sec) extra in geodetic surveying -> for any line of length of 12 km, it is just 1cm extra en Geodoric sweey.
 - # slowey ar also be classfied as following
 - (1) Based upon the of Survey NATURE
 - (a) LAND SURVEY? Here surveying is Done for the feature on land
 - -> or is further classified into
 - (1) Topographical survey: This consist of Horizontal & vertical location of certain point by linear & argular measurment to determine physical feature, like [river, lake, pond, forest, Hill (Natural), [ATHIFICAL - ROAD, 10WN, VIllages etc]
- (ii) CADASTRAL SURVEY & This survey are made for fixing the property line e collection of land area or the transfer of and phoperty.
- (iii) cITY survey & this survey we made in convertion were consmand OF Streets, water pipeline, sewers, upaires, optical flore.
- (B) MARIN / HYDROGRAPHIC SURVEY & It deal wern waren Body for prepose of Nevigation, water such supplies, mean sea level, perervor function, waste disposal

It consist of measurment of discharge of streams, stage It consist buctuation in oceans tides.

Note:1) for any triangle with one 1955 km²; Some of Interior angle would be just 1" (1sec) from a geodefic Survey 2) for any line of tength 12km; it is just 1cm Extra in geodefic Survey
(1507/P12C Sugaliful
(1507/P12C Sugaliful
2) For any line of femath 12 km, it is tust 1cm
Entra im georletic Sumley.
Surveying Cam also be classified as
Surveying Can also be classified as (G) BASED UPON THE SURVEY
(a) LAND SURVEY
- Here Surveying is done for the features of Land
- It is further classified into
(i) Tolographical Survey's
- This Consist of horizontal and vertical location of
cestain points by linear and Angular measurement.
to defermine physical features like: River lake Pand
Forest, hill [Hatural], Road, Railway brack, Comal.
town, villages [Axtificial].
, J. J.
(ii) CADASTRAL SURVEY'S
These survey are made for fixing the bronger line
These survey are made for fixing the property line s Calculation of land area or the transfer of land
Property.
Licil CITY SURVEY
- These survey's one made in Connection with the
Construction of streets, water like line, sewers, LPG line
Offical fibre

Spiral

Date
(B) MARINE / HYDROGRAPHIC BURUEY.
- It deals with water bodies for Purpose of Mariantion water
- At deals with water bodies for Purpose of Navigation water Supply, mean sea level, Reservoir functioning, wark disposals
- It Consist as Measurement as discharge as streams, stage as water body, & fluctuation un oceans tides
(C) ASTRONOMICAL SURVEY
- It is carried out for defermining the absolute Josephon
g any foint on the surface of Earth with the
help as heavenly / Celestial / special body.
herp as heavenly / Celestial / special body. E.g. Sum, any fixed star.
(-1) n
(II) BASED ON OBJECT OF SURVEY.
(a) Engineering survey
- This is done to find the sufficient data to be used for
- Engle design works like boads, reservoir, sewers trench
foundation etc.
(9)
(B) MITTRY SURVEY
It is used for defermining the Points of strategic Importance
(C) GEOLOGICAL SURVEY
It deals with defermination of formation of earth strate
(D) ARCHAEOLOGICAL SURVEY
This is used to find the fristence of Past civilisation
(E) MINE SURVEY:
It is being carried and for Emploration of new mines.
Spiral