

Spherical
Ques 9:- Discuss the various leveling terminology.

Ans:- Vertical line:- It is the line which is indicated by plumb at required station.

• Horizontal line:- It is the line of sight of instrument which is tangential to the level surface and it is perpendicular to the plumb line.

• Level Surface:- It is the continuous surface parallel to the mean spheroid of the earth. The line representing the level surface is termed as level line.

• Datum:- It is the reference line with respect to which the levels of other station points are fixed.

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- Mean Sea level:- It is established height of tides by taking the average a very long period. MSL is used as datum level for all important surveys of that zone.

- Reduced level:- It is the vertical difference between the level point and datum line.

- Bench mark:- It is the point above or below the datum line with a known elevation.