

Q:- The various levelling terminology is a surveying method used to find relative height, one use of which is to ensure ground is level during construction for example, when excavating to prepare for laying a foundation for a house.

Levelling terminology:-

- - Automatic Level :- variant of the dumpy level that makes use of a compensator that ensures that the line of sight remains horizontal once the operator has roughly leveled the instrument.
- Back Sight (BS) - short for back sight reading the first staff reading taken by the surveyor after the levelling instrument is set up and levelled.
- Benchmark (surveying) - fixed reference point of known elevation with respect to which RL of other points is determined.
- Datum Surface :- Reference plane with respect to which RL of the other survey points is determined. The datum surface may be real or imaginary location.
- Dumpy level :- optical instrument used to establish or check points in the same horizontal plane.

Fore Sight :- Short for "fore sight reading the last staff reading taken before changing the instrument to the other position.

Intermediate sights :- All readings taken between back sight and fore sight.

Laser level :- Control tools consisting of a laser beam projector that can be affixed to a tripod.

Levelling :- Measurement of geodetic height using an optical levelling instrument and a level staff rod.