

Civil Engineering Surveying Questions And Answers PDF Download

An arithmetic check in the reduction of levels by the rise and fall method is stated as Last RL – First RL is equal to

- (i) Sum of rises – Sum of falls
- (ii) Sum of backsights – sum of foresights
- (iii) Sum of backsights – Sum of intermediate sights
- (iv) Sum of foresights – Sum of intermediate sights

1. Only (i)
2. **(i) and (ii)**
3. (i) and (iii)
4. (i) and (iv)

The purpose of an anallactic lens in a tacheometer is to

1. increase magnification
2. reduce effective length of the telescope
3. eliminate multiplying constant
4. **make staff intercept proportional to its distance from the tacheometer**

Centering the theodolite means

1. **setting the theodolite exactly over the station mark**
2. rotating the telescope about the horizontal axis through 180°
3. rotating the telescope about the vertical axis
4. bisecting the ranging rod

Which of the following is/are type(s) of telescope used in stadia surveying?

- i. simple external focusing telescope
- ii. external focusing anallactic telescope
- iii. internal focusing telescope

1. Only (i)
2. (i) and (ii)
3. **(ii) and (iii)**

4. (i), (ii) and (iii)

The scale of the photograph taken from an aircraft essentially depends upon

1. the distance of the object from the cameras
2. the focal length of the lens in the camera used
3. the aperture of the camera lens
4. the speed of the film used

For a Simple circular curve which one of the following gives the correct relation between the radius R and degree of curve D , for 30m arc length?

1. $R = 5729.6 / D$
2. **$R = 1718.9 / D$**
3. $R = 1145.9 / D$
4. $R = 572.9 / D$

If S denotes the sum of all the angles of a spherical triangle then the quantity $S-180$ is called as?

1. Spherical error
2. Spherical deficiency
3. **Spherical excess**
4. Spherical misclosure

What is tangent length of a simple circular curve whose radius is 200 m and deflection angle is 90° ?

1. 100 m
2. **200 m**
3. 400 m
4. 800 m

The elevations of objects on an aerial photograph can be measured due to

1. Tilt
2. Drift
3. Overlap
4. **Stereoscopic fusion**

Contour rings plotted after contour survey, shows higher RL values in outer rings compared to inner rings represents

1. **Valley**
2. Hill
3. Cliff
4. Plane ground

The type of surveying in which the curvature of earth is taken into account is called

1. **Geodetic surveying**
2. Plane surveying
3. Preliminary surveying
4. Topographical surveying