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Q:) The diaphragm of a stadia theodolite is fitted with two additional

A : Horizontal hairs

B : Vertical hairs

C : Horizontal and two vertical hairs

D : None of these

Q:) If a tachometer is fitted with an analectic lens

**A : Additive constant is 100,
multiplying constant is zero**

**B : Multiplying constant is 100, additive
constants is zero**

**C : Both multiplying and additive
constants are 100**

D : Both multiplying and additive

Q:) The curve composed of two arcs of different radii having their centres on the opposite side of the curve, is known

A : A simple curve

B : A compound curve

C : A reverse curve

D : A vertical curve.

Q:) The angle of intersection of a curve is the angle between

A : Back tangent and forward tangent

B : Prolongation of back tangent and forward tangent

C : Forward tangent and long chord

D : Back tangent and long chord.

Q:) If the rate of gain of radial acceleration is 0.3 m per sec^3 and full centrifugal ratio is developed. On the curve the ratio of the length of the transition curve of same radius on road and railway, is

- A : 2.828**
- B : 3.828**
- C : 1.828**
- D : 0.828.**

Q:) The properties of autogenous curve for auto-mobiles are given by

A : True spiral

B : Cubic parabola

C : Bernoulli's Lemniscate

D : Clothoid spiral.

Q:) An ideal vertical curve to join two gradients, is

A : Circular

B : Parabolic

C : Elliptical

D : None of these.

Q:) If + 0.8% grade meets - 0.7% grade and the rate of change of grade for 30 m distance is 0.05, the length of the vertical curve will be

A : 600 m

B : 700 m

C : 800 m

D : 900 m.

Q:) For indirect ranging, number of ranging rods required, is

A : 1

B : 2

C : 3

D : 4

Q:) The main plate of a transit is divided into 1080 equal divisions. 60 division of the Vernier coincide exactly with 59 divisions of the main plate. The transit can read angles accurate up to

A : 5"

B : 10"

C : 15"

D : 20"

Q:) Permanent adjustments of a level are

A : 2 in number

B : 3 in number

C : 4 in number

D : 6 in number.

Q:) Number of subdivisions per metre length of a levelling staff is

A : 100

B : 200

C : 500

D : 1000



Q:) Pantograph is used for

A : Measuring distances

B : Measuring areas

C : Enlarging or reducing plans

D : Setting out right angles.

Q:) Profile levelling is usually done for determining

A : Contours of an area

B : Capacity of a reservoir

C : Elevations along a straight line

D : Boundaries of property.

Q:) The bearing of line AB is $152^{\circ} 30'$ and angle ABC measured clockwise is $124^{\circ} 28'$. The bearing of BC is

A : $27^{\circ} 52'$

B : $96^{\circ} 58'$

C : $148^{\circ} 08'$

D : $186^{\circ} 58'$.



Q:) Ranging is an operation of

A : Reconnaissance

B : Judging the distance

C : Determination of slope

**D : Establishing intermediate points
between terminals.**

Q:) Measuring with a 30 m chain, 0.01 m too short, introduces

A : Positive compensating error

B : Negative compensating error

C : Positive cumulative error

D : Negative cumulative error.

Q:) A dumpy level was set up at mid-point between pegs A and B, 80 m apart and the staff readings were 1.32 and 1.56. When the level was set up at a point 10 m from A on BA produced, the staff readings obtained at A and B were 1.11 and 1.39. The correct staff reading from this set up at B should be

A : 1.435

B : 1.345

C : 1.425

D : None of these.

Q:) The desired sensitivity of a bubble tube with 2 mm divisions is 30". The radius of the bubble tube should be

A : 13.75 m

B : 3.44 m

C : 1375 m

D : None of these.

Q:) A dumpy level was set up at the mid-point between two pegs A and B, 50 m apart and the staff readings at A and B were 1.22 and 1.06. With the level set up at A, the readings at A and B were 1.55 and 1.37. The collimation error per 100 m length of sight is

A : 0.02 m inclined upwards

B : 0.04 m inclined downwards

C : 0.04 m inclined upward

D : None of these.



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