

Question : 1 Diopter is the power of lens having focal length of 100 cm

Question : 2 Accuracy of fix by two point problem is not reliable

Question : 3 Probable error of the adjusting bearing at the middle is $\frac{1}{2}r\sqrt{h}$

Question : 4 If the radius of a simple curve is R the length of a chord for calculating off sets by the method of chord produce should not exceed $\frac{R}{20}$

Question : 5 Line ranger is used for locating intermediate station on survey line

Question : 6 If the rate of gain of radial acceleration 0.3 per meter sec^3 and full centrifugal ratio is developed of the curve the ratio of the length of the transition curve of the same radius on road and railways equal to 2.828

Question : 7 C.F for railways = $\frac{1}{8}$

Question : 8 C.F for highways = $\frac{1}{4}$

Question : 9 Two peg test
error of collimation

$$e = \frac{(a_2 - b_2) - (a_1 - b_1)}{d_1 + d_2}$$

Question : 10 The diaphragm of stadia theodolite if fitted with additional horizontal hair

Question : 11 If θ is probable error of an observed bearing of line of sight of length l , the error over the whole length of traverse of n line of length is $l\sqrt{n}$

Question : 12 Best method of interpolation of contour is by computation

Question : 13 The vertical angle between longitudinal axis of freely suspended magnetic needle and a horizontal line at its pivot is dip

Question : 14 Cross hairs in surveying telescope ,are fitted in front of the eye piece

Question : 15 On diagonal scale ,it is possible to read upto three dimension

Question : 16 Probable systematic error in precise levelling as recommended by international geodetic association should not exceed $0.2\sqrt{k_{mtr}}$

Question : 17 The ratio of the angle subtended at the i, by virtual image and object is known as telescopic magnification.

Question : 18 Removal of parallax, may be achieved by focusing the object and eye piece.

Question : 19 While rotating the theodolite in horizontal plane, the bubble takes up the same position in its tube it indicates the rotation axis is vertical.

Question : 20 Durnal variation of a magnetic declination less at equator than near the poles.

Question : 21 Minimum range for sliding the focusing lens in the internal focusing telescope for focusing at all distance beyond 4 meter is 20mm.

Question : 22 Ramsden eye piece consist of two plano convex lenses show distance apart with the convex surface facing each other.

Question : 23 Apparent error on reversal is twice the actual error.

Question : 24 An angle of deflection right may be directly obtained by setting the instrument to read 0 on back station.

Question : 25 Accuracy of elevation of various points obtained from contour map is limited $1/2$ of contour interval.

Question : 26 Perpendicularity of an offset may be judged by eye, if the length of offset is 15 mtr.

Question : 27 A lemniscate curve will not be transitional throughout if its deflection angle is 45^0 .

Question : 28 In lemniscate curve the ratio of the angle between the tangent at the end of the polar rays and straight rays is $3/2$.

Question : 29 From any point on the surface given inclination indefinite contour gradient are possible.

Question : 30 While measuring with metallic tape of 30 mtr. length of pull should be applied 3 kg.

Question : 31 Maximum length of the chord for calculationg offsets = $R/20$.

Question : 32 Power of lens is measured in diopter.

Question : 33 Profile levelling is usually done for determining elevation along a straight line.

Question : 34 Correction per chain length of 100 links along a slope having a rise of 1 unit in n horizontal units is $100/n^2$.

Question : 35 To avoid large centering error with very short legs, observation are generally made to a target fixed on theodolite tripod in which theodolite may be fitted easily.

Question : 36 Perpendicular offset from a tangent to a junction of a transition curve and circular curve is = 4 times shift.

Question : 37 The distance between the terminal point computed from subsidiary traverse run between them is generally known as traverse base.

Question : 38 A lemniscate curve between the tangent will be transitional throughout if the polar deflection angle of its apex is $\frac{\Delta}{6}$.

Question : 39 Prolongation of a chain line across an obstruction in chain surveying is done by drawing perpendicular with chain.

Question : 40 Short offsets are measured with an ordinary chain.

Question : 41 Huygens telescope eye piece is aplanatic and achromatic.

Question : 42 A straight parallel and widely spaced contour represent an inclined plane surface.

Question : 43 The theodolite used for making tacheometric observation by optical wedge system are fitted with a glass wedge in front of telescope.

Question : 44 Under ordinary condition, the precession of a theodolite traverse is affected by systematic linear error.

Question : 45 Stadia techometry was discovered by James Watt in year 1770.

Question : 46 The properties of the autogenous curve for automobile are given by bernoullis lemniscate.

Question : 47 Location of a contour gradient for a highway is best set out from saddle down the hill.

Question : 48 Correction per chain length of 100 links along slope of $a^\circ = 1.5a^2/100$.

Question : 49 Permanent adjustment of a levels are 2 in number.

Question : 50 Two contour lines having the same elevation can unite together.

Question : 51 Correction per chain length of 100 links along a slope of α in radian is 100α .

Question : 52 In case of double line rivers contour are stopped at the edge of the river.

Question : 53 The difference in the length of arc and its subtended chord on the earth surface of 18.2 Km is only 10 cm.

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Question : 54 $\frac{h^2}{2l} + \frac{h^4}{8l^3}$

neglect if h is 20m and distance less than 3m.

Question : 55 Eye piece place no part in define line of sight.

Question : 56 Intercept of staff minimum if staff held trully normal to the line of sight.

Question : 57 R for the bubble tube = 100 m.

Question : 58 Tie lines = to avoid long offset from chain line.

Question : 59 Lehmen's rule of plane tabling is located the instrument station is always distant from each of the three rays from the known points in proportions to their distances.

Question : 60 If a 30 m chain diverges through a perpendicular distance from its alignment; error in length = $\frac{d^2}{60m}$.

Question : 61 Deviation of the actual road gradient from the proposed contour gradient up hill sides involve excavation on the center line.

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