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SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 1) In a vertical curve, an upgrade of 3% is followed by a downgrade of 2%. The rate of change of grade is 0.06% per 20 m chain. The length of the vertical curve will be:

A : 83.33 chains

B : 41.66 chains

C : 44 chains

D : 22 chains

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 2) Correct length of a 100 m tape, weighing 24 N when pull of 200 N is applied at the ends is freely suspended is

A : 100.12 m

B : 100.06 m

C : 99.88 m

D : 99.94 m

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 3) A 30-m steel tape was standardized at 20°C. The tape was used when the ambient temperature was 40°C. A 30-m length measured with the tape will actually be (taken coefficient of expansion of tape material as 15×10^{-6})

A : 30.09 m

B : 30.009 m

C : 29.991 m

D : 29.91 m

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 4) What was/is the standard length (in ft.) of Gunter's chain and in how many parts was/is it sub-divided?

A : 66,100

B : 60,100

C : 66, 50

D : 60, 50

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 5) Optical square is based on which of the following principles:

A : Double refraction

B : Refraction

C : Reflection

D : Double Reflection

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 6) If the difference of the fore and back bearing of the line is $180^{\circ}30'$ then there is effect of:

A : Magnetic declination

B : Local attraction

C : Dip

D : None of the above

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 7) Two straight lines AB and BC have bearings 145 and 82° respectively and intersect at B and are connected by a curve of radius 200 m. The deflection angle is:

A : 63.00

B : 1.38

C : 2.44

D : 60.00

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 8) If the fore bearings of lines AB and BC are 190° and 39° respectively, the included $\angle ABC$ is

A : 29°

B : 151°

C : 49°

D : 229°

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 9) The sum of exterior angles for a hexagon is:

A : 720

B : 1440

C : 900

D : 1080

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 10) When the whole circle bearing of a traverse line is between 90° to 180° , then

A : The latitude is positive and departure is negative

B : The departure is positive and attitude is negative

C : Both latitude and departure and positive

D : Both latitude and departure are negative

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 11) The bearing of line CD is 140° , and the angle CDE is 116° . The bearing of line DE is:

A : 66°

B : 65°

C : 106°

D : 76°

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 12) The point at which both foresight and back sight are taken during the course of leveling is called as :

A : Intermediate site

B : Benchmark

C : Station

D : Change point

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 13) The R.L. of the point A which is on the floor is 100 m and back sight reading on A is 2.455 m. If the foresight reading on the point B which is on the ceiling is 2.745 m, the R.L. of point B will be

A : 94.80

B : 99.71

C : 100.29

D : 105.20

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 14) Keeping the instrument height as 1.5 m, length of staff 4m the slope of the ground as 1 in 10, the sight on the down-slope, must be less than _____m.

A : 15

B : 20

C : 25

D : 30

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 15) When differential leveling is done in order to connect a bench mark to a starting point of the alignment of any road, railway, canal project, it is called

A : Profile leveling

B : Cross-section leveling

C : Reciprocal leveling

D : Fly leveling

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 16) While measuring the distance between the two points,, If L is in kilometers, the correction for curvature of earth is

A : $48.3 L^2$ mm

B : $55.2 L^2$ mm

C : $62.4 L^2$ mm

D : $78.4 L^2$ mm

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 17) The instrument that is used for measurement of angles:

A : geodimeter

B : Tellurometer

C : Sextant

D : telescope

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 18) Two point and three point problems are the methods of

- 1. Resection**
- 2. Orientation**
- 3. Radiation**
- 4. Intersection**

The correct answer are

A : Both 1 and 2

B : Both 1 and 3

C : Both 1 and 4

D : 1, 2 and 3

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 19) Consider the following characteristics of contours :

- 1. A uniform slope is indicated when contour lines are uniformly spaced.**
- 2. Contour lines cannot end anywhere but can close on themselves.**
- 3. A set of closed contours indicates a depression or a summit, according to the lower or higher values being respectively inward.**

Which of the above statements are correct?

A : 1 and 2 only

B : 1, 2 and 3

C : 1 and 3 only

D : 2 and 3 only

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 20) Anallactic lens provided in a tacheometer is

A : Concave lens

B : Convex lens

C : Plano convex lens

D : Plane lens

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 21) Which of these actually represent(s) self-reading levelling staff?

a. Solid staff

b. telescopic staff

c. Folded staff

d. Target staff

A : A only

B : A, B and C

C : B, C and D

D : D only

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 22) The line passing through the intersection of the horizontal and vertical cross hairs and optical centre of the object glass and its continuation is called :

A : The line of sight

B : The line of collimation

C : The line of sight as well as the line of collimation

D : The axis of level tube

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 23) If the latitude and departure of a line are 100 m and 45.83 m, then the length of the line is-

A : 54.17 m

B : 110.0 m

C : 154.83 m

D : 88.9 m

SURVEYING LECTURE – 7 || SSC JE PYQ || BY MOOLCHAND SIR

Q : 24) For a tacheometer, the additive and multiplicative constants are respectively

A : Zero and 100

B : 100 and zero

C : 100 and 100

D : Zero and 1



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