







# CIVIL ENGINEERING



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# **CIVIL ENGINEERING**

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**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 1) If the bearing of a line AB is  $50^\circ$  and that of line BC is  $20^\circ$ , then the included angle between the lines is**

**A :  $70^\circ$**

**B :  $220^\circ$**

**C :  $120^\circ$**

**D :  $150^\circ$**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 2) The R.L. of the point 'A' which is on floor is 100 m and back sight reading on 'A' is 2.445m. If the foresight reading on the point 'B' which is on ceiling is 2.745 m the R.L. of point 'B' will be –**

**A : 94.80 m**

**B : 99.71 m**

**C : 100.29 m**

**D : 105.20 m**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 3) In levelling, mistakes in rod handling are counted under the \_\_\_\_\_ error**

**A : Natural**

**B : Personal**

**C : Natural as well is instrumental**

**D : Instrumental**



## **SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 4) Hypsometry is a method of**

**A : Surveying of water bodies**

**B : Determining elevations based on the boiling point of liquids**

**C : Determining elevations based on the atmospheric pressure**

**D : Finding temperatures at different heights**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 5) For a close traverse, sum of latitudes is  $-0.46$  m and sum of departures is  $-0.22$  m. What is the closing error?**

**A : 0.475**

**B : 0.226**

**C : -0.680**

**D : -0.240**



**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 6) One minute arc of longitude is equal to**

**A : One nautical mile**

**B : One mile**

**C : One gigaparsec**

**D : One light minutes**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 7) The error that is NOT due to lack in permanent adjustment of total station is:**

**A : Tilting axis**

**B : Vertical collimation**

**C : Centering**

**D : Horizontal collimation**



**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 8) Match List-I with List-II in question and select the correct answer by using code given below:**

List-I	List-II
A. Planimeter	1. Use for enlarging or reducing map
B. Pentagraph	2. Use as a sun signal in triangular survey
C. Heli graph	3. Use for measuring the area of plans of any shape accurately
D. Distometer	4. An electronic distance measuring device

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 9) Least count of a levelling staff is-**

**A : 1 cm**

**B : 5 mm**

**C : 1 mm**

**D : None of the above**



**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 10) The staff readings taken at stations A, B, C, D from a single setup of the level are 0.535, 1.105, 2.155, 1.785. The stations B is:**

**A : Below A and D**

**B : Above C and D**

**C : Between C and D**

**D : None of the above**

## SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR

**Q : 11) The minor instrument used not only to take horizontal sights but also inclined sights are known as-**

**A : Clinometer**

**B : Sextant**

**C : Pantograph**

**D : Planimeter**



**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 12) Mean sea level at any place is the average datum of hourly tide height observed over a period of nearly**

**A : 5 years**

**B : 10 years**

**C : 20 years**

**D : 30 years**

## SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR

**Q : 13) The number of horizontal cross hairs in a stadia diaphragm is**

**A : 1**

**B : 2**

**C : 3**

**D : 4**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 14) The sensitiveness of a level tube decrease if \_\_\_\_\_**

**A : Radius of curvature of its inner surface is increased**

**B : Diameter of the tube is increased**

**C : Length of the vapour bubble is increased**

**D : Both viscosity and surface tension are increased**



**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 15) The sum of interior angles of a closed traverse of n sides is :**

**A :  $(2n-4) \times 90^\circ$**

**B :  $(2n +4) \times 90^\circ$**

**C :  $(n-4) \times 90^\circ$**

**D :  $(n+4) \times 90^\circ$**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 16) A staff is held at a distance of 1000 m from a level. If the reading on the staff is 1.565 m, the reading corrected for curvature is**

**A : 1.487 m**

**B : 1.498 m**

**C : 1.632 m**

**D : 1.644 m**

## SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR

**Q : 17) The number of horizontal cross hairs in a stadia diaphragm is**

**A : 1**

**B : 2**

**C : 3**

**D : 4**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 18) The line normal to the plumb line at all points**

**A : Vertical lines**

**B : Horizontal line**

**C : Datum line**

**D : Level line**



**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 19) In a closed loop traverse of 1 km total length the closing errors in departure and latitude are 0.3 m and 0.4 m, respectively. The relative precision of this traverse will be**

**A : 1 : 5000**

**B : 1 : 4000**

**C : 1 : 3000**

**D : 1 : 2000**

## SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR

**Q : 20) If  $\ell$  is the length of the line, then according to Bowditch's method, the linear and angular errors are proportional to-**

**A :  $\ell$  &  $1/(\ell)$**

**B :  $\ell^{0.5}$  &  $1/(\ell^{0.5})$**

**C :  $\ell^{0.67}$  &  $1/(\ell^{0.67})$**

**D :  $\ell^2$  &  $1/(\ell^2)$**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 21) The type of levelling operations carried out for laying a railway track are**

- 1. Longitudinal levelling (L.S)**
- 2. Fly levelling**
- 3. Barometric levelling**
- 4. Cross-sectioning**

**Select the correct answer using the codes given below:**

**A : 1, 2 and 3 only**

**B : 1, 3 and 4 only**

**C : 2, 3 and 4 only**

**D : 1, 2 and 4 only**

**SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR**

**Q : 22) The distance to the visible horizon from a height of 36m above mean sea level is given by:**

**A : 7.311 km**

**B : 138.718 km**

**C : 23.12 km**

**D : 9.343 km**



# SURVEYING LECTURE – 5 || SSC JE PYQ || BY MOOLCHAND SIR

**Q : 23) To find the true difference between points A and B on the opposite banks of a river, the level was set up near A and the staff readings on A and B were 2.635 and 4.247. The level was then moved and set up near B and the respective staff readings on A and B were .020 and 3.980. what is the true RL of B if RL of A is 400?**

**A : 405.464 m**

**B : 4,03.571 m**

**C : 401.782 m**

**C : 398.214 m**



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