

CIVIL ENGINEERING

SSC JE PRE 2021

LIVE BATCH-II



At Just

2500/-



START DATE

14

JUNE 2022



DURATION

300


HOURS



VALIDITY

1

YEAR

 [8595517959](https://wa.me/8595517959), [7827455078](https://wa.me/7827455078)

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Q : 1) In a optical square method the angle b/w the first incident ray and last reflected ray is

A : 60°

B : 120°

C : 90°

D : 105°

Q : 2) The distance between two brass rings in a surveyor's chain is

A : 20 cm

B : 40 cm

C : 75 cm

D : 1 m

Q : 3) In a Gunter's chain no. of link in per ft chain length?

A : 132

B : 0.484

C : 0.5

D : 66

Q : 4) Method used for chaining on sloping ground is –

A : By stepping method

B : By hypotenusal allowance method

C : By clinometer method

D : Both stepping method and hypotenusal method

Q : 5) _____ is the deviation of the observed value from the true value (most probable value)

A : permissible error

B : Expected error

C : Residual error

D : Safe error

Q : 6) Positive error is caused if –

A : Length of chain is longer than the standard

B : Slope and sag corrections are applied

C : Measurements are made along the correctly aligned line

D : None of these

Q : 7) Compensating error in chaining are _____

A : Proportional to the length of line

B : Proportional to the square of the length of the line

C : Proportional to the square root of the length of the line

D : Inversely proportional to the length of the line

Q : 8) Permissible limits of error in chaining for measurement on rough or hilly ground is _____

A : 1 : 2000

B : 1 : 1000

C : 1 : 500

D : 1 : 250



Q : 9) In the survey, the slope correction applied to the base line is _____

A : Always cumulative

B : Always compensating

C : Sometimes cumulative, sometimes compensating

D : None of these

Q : 10) Calculate the correction for temperature for a tape of length 'L' if the increase in temperature is 'T' above the standard temperature. The coefficient of the temperature for tape material is 'a',

A : aT/L

B : $-aT/L$

C : $+aTL$

D : $-aTL$

Q : 11) Which one is the correct option for the cumulative errors?

- 1. It decreases with an increased in measurement.**
- 2. It is directly proportional to the length of the line.**
- 3. It may be positive or negative**
- 4. It is inversely proportional to the length of the line.**

A : 1, 3 and 4

B : 1 and 3

C : 2 and 3

D : Only 2

Q : 12) Gunter's chain is _____ m long

A : 21.12

B : 20.12

C : 22.12

D : 23.12

Q : 13) If the bearing of AB = N40°W, bearing of BC = S70°E, then the value of $\angle ABC$ is –

A : 30°

B : 70°

C : 100°

D : None of these

Q : 14) Inclination of the compass needle to the horizontal towards the pole is called

A : Dip

B : Declination

C : Azimuth

D : Bearing



Q : 15) The quadrantal bearing of the line lies in the third quadrant making angle in clockwise with the north is

A : $N(\theta-180^\circ)E$

B : $N(\theta-180^\circ)W$

C : $S(\theta-180^\circ)E$

D : $S(\theta-180^\circ)W$

Q : 16) Which of the following is TRUE for the limit of accuracy in a compass surveying?

- A : Should not more than 5 minutes**
- B : Should not be less than 5 minutes**
- C : Should no more than 10 minutes**
- D : Should not be less than 10 minutes**

Q : 17) The magnetic bearing of a line is $44^{\circ}30'$. What is the true bearing if the magnetic declination is $6^{\circ}30'$ East?

A : $97^{\circ}00'$

B : $51^{\circ}00'$

C : $83^{\circ}30'$

D : $38^{\circ}00'$

Q : 18) Dip of a magnetic needle at equator and pole is respectively

A : 90° and 0°

B : 78° and 12°

C : 0° and 90°

D : 12° and 78°



Q : 19) Theodolite is an instrument used for measurement of :

A : Both horizontal and vertical angle

B : Distance only

C : Horizontal angle only

D : Vertical angle only



Q : 20) In a theodolite the line of collimation is _____

A : Parallel to axis of plate levels

B : Parallel to the vertical axis

C : Perpendicular to the trunnion axis

D : Parallel to the horizontal axis