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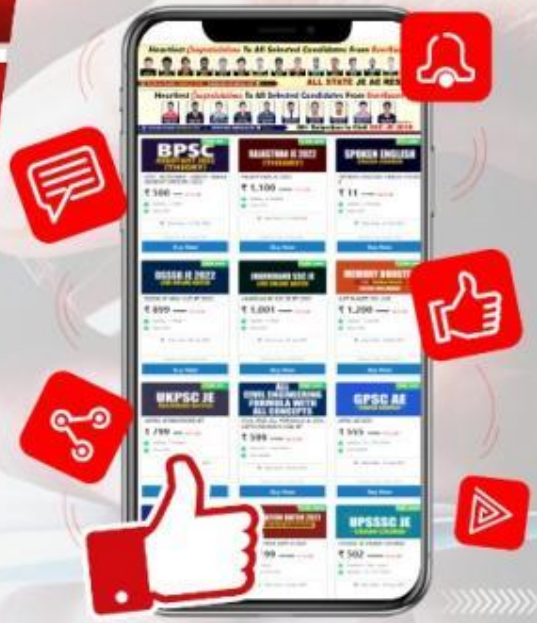

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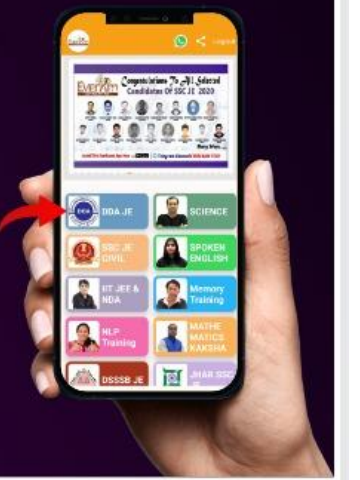

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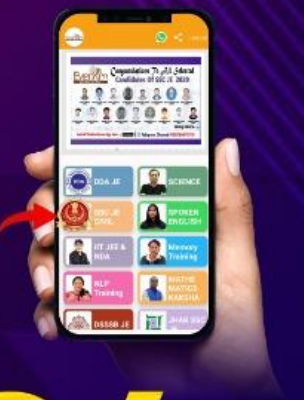

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Q: 1) Match List-I (Type of Survey) with List-II (Purpose) and select the correct answer using the codes:

LIST - I	LIST - II
A. Topographical Survey	01. To determine boundaries of fields, houses etc
B. Reconnaissance survey	02. To find relics or antiquity
C. Cadastral survey	03. To determine natural features of a country
D. Archaeological survey	4. To determine possibility and rough cost of the surveying system to be adopted

Codes:

A : A-3, B-4, C-1, D-2

B : A-3, B-1, C-4, D-2

C : A-2, B-4, C-1, D-3

D : A-2, B-1, C-4, D-3

Q: 2) Which of the following figures are equal to one acre?

1. 48560 sq. ft.
2. 40 Gunthas
3. 10 sq. Gunter's chain
4. 4850 sq. yds.

Select the correct answer using the code given below.

A : 1, 2 and 3
B : 2, 3 and 4
C : 1, 2 and 4
D : 1, 3 and 4

Q: 3) Which one of the following verniers is employed in Abney Level?

A : Retrograde vernier

B : Double vemier

C : Double folded vernier

D : Extended vernier

Q: 4) A scale of 1 inch = 50 ft. is mentioned on an old map. What is the corresponding equivalent scale?

A : 1 cm = 5 m

B : 1 cm = 6 m

C : 1 cm = 10 m

D : 1 cm = 12 m

Q: 5) Which one of the following conditions requires geodetic surveying?

A : Horizontal curve ranging

B : Vertical curve ranging

C : Survey of a country

D : Reconnaissance survey

Q: 6) Working from the whole to the part is followed as the fundamental principle of surveying so as to:

1. Distribute errors
2. Improve ease of working
3. Prevent accumulation of errors
4. Compensate errors in a way
5. Refer to a common datum, say MSL

A : 1, 2 and 4

B : 1,3 and 5

C : 3 and 4

D : 2 and 5

Q: 7) Which one of the following statements is correct?

A : In a retrograde vernier, (n - 1) divisions on the primary scale are divided into n divisions on the vernier scale

B : A double vernier consists of two simple vemiers placed end-to-end forming one scale withthe zero in the centre

C : In an extended vernier, (2n + 1) primary divisions are divided into n divisions on the vernier

D : In a direct vernier, (n + 1) primary divisions are divided into n equal divisions on the vernier

scale

Q: 8) Reconnaissance survey for determining feasibility and estimation of scheme falls under the classification based on the

A : Nature of the field of survey

B : Object of surveying

C : Instruments used

D : Method employed

Q: 9) A 30 m metric chain is found to be 0.1 m too short throughout the measurement. If the distance measured is recorded as 300 m, then the actual distance measured will be

A : 300.1 m

B : 301.0 m

C : 299.0 m

D : 310.0 m

Q: 10) The following steps are necessary to obtain sufficient accuracy with the tape:

1. Keeping uniform tension on tape for each measurement.
2. Breaking" tape on slopes as necessary to keep the tape level.
3. Keeping accurate count of the stations.
4. Keeping the tape on the line being measured.

The correct sequence of these steps is

A : 4, 2, 1, 3

B : 4, 1, 2, 3

C : 3, 2, 1, 4

D : 2, 3, 4, 1

List-I List-II

A. 1. Sag correction

B. 2. Pull correction

C. 3. Temperature correction

D. 4. Mean sea level correction

Q: 11) Match List-I (Corrections) with List-II (Name) and select the correct answer

List-I	List-II
A. $-L\left(1-\frac{h}{R}\right)$	1. Sag correction
B. $-\frac{1}{24}\left(\frac{W}{P}\right)^2 \times L$	2. Pull correction
C. $\pm\alpha(T_f\ T_s)L$	3. Temperature correction
D. $\pm\frac{(P-P_s)L}{AE}$	4. Mean sea level correction

(where the letters have their usual meaning)Codes:

A : A-4, B-1, C-3, D-2

B : A-1, B-4, C-3, D-2

C : A-4, B-1, C-2, D-3

D : A-1, B-4, C-2, D-3

Q: 12) Consider the following:
1. Line ranger
2. Reciprocal ranging
3. Random line method
4. Optical square
Which of these are the correct methods of ranging employed to solve the problem of vision obstructed but with chaining free?
A : 1, 2, 3 and 4
B : 2 and 3 only
C : 2 and 4 only
D : 3 and 4 only

Q: 13) A rectangular plot of 16 km² in area is shown on a map by a similar rectangular area of 1 cm². R.F. of the scale to measure a distance of 40 km will be:

A : 1/1600

B : 1/400000

C : 1/400

D : 1/16000

Q: 14) For better accuracy in measuring and plotting the sides of a triangle by triangulation, the angles of the triangle A

A : Should not be more than 30°

B : Should not be less than 30° or more than 120°

C : Are not restricted in magnitude

D : Should not be less than 120°

Q: 15) Hypotenusal allowance is given by the expression (adopting standard conventions)

A : (1-sec θ) x measured distance

B : (1-cos θ) x measured distance

C : (sec θ -1) - measured distance

D : (cos θ -1)* measured distance

Q: 16) The clogging of chain rings with mud introduces (with 'error' defined in the standard way)

1. Negative cumulative error
2. Positive cumulative error
3. Compensating error

A : 1 only

B : 2 only

C : 3 only

D : 1, 2 and 3

Q: 17) The combined correction for curvature and refraction for a distance of 3400m will be nearly

A : 0.2 m

B : 0.4 m

C : 0.6 m

D : 0.8

Q: 18) If the declination is 5° 40' W, which one of the following magnetic bearing would represent the true bearing of S 25° 20' E?

A : S 19° 20' E

B : S 31° 0' E

C : S 20° 0' E

D : None of these

Q: 19) Which one of the following pairs is not correctly matched?

A : Declination : Horizontal angles between magnetic meridian and true meridian

B : Bowditch's rule : Employed to adjust closing error of a closed traverse

C : Deflection angle : Measured in case of open traverse instead of measuring included angle

D : Reconnaissance survey : Employed for detailed and precise survey

Q: 20) In a closed traverse ABC, following readings were taken

LIne	Fore bearing	Back bearing
AB	20^o	201^o
BC	101^o	278^o
CA	278^o	50^o

Station A is free from local attraction. Correct bearing of CB is

A : 275^o

B : 276^o

C : 281^o

D : 280^o

Q: 21) The needle of a magnetic compass is generally supported on a

A : Bush bearing

B : Ball bearing

C : Needle bearing

D : Jewel bearing

Q: 22) Regarding a prismatic compass, which one of the following statements is correct?

A : The object is sighted first. The observer then moves to the side of the object vane to take the reading

B : Sighting and reading are done simultaneously

C : The readings are taken from the north end

D : The compass has an edge bar needle

Q: 23) In an old map, a line AB was drawn to a magnetic bearing of 5o 30', the magnetic declination at the time bearing 1° 30' east, the line should be set to a magnetic bearing of

A : 358°

B : 2°

C : 6° 30'

D : 257°

Q: 24) Which of the following statements with reference to isogonic line are correct in magnetic declination?

1. It is drawn through the points of same declination
2. It does not form complete great circle
3. It radiates from north and south magnetic regions and follows irregular paths

A : 1 and 2 only

B : 1 and 3 only

C : 2 and 3 only

D : 1, 2 and 3

Q: 25) Consider the following operations in a spire test:

1. Depress telescope and sight a point on the ground nearer to the instrument.
2. Clamp horizontal plates.
3. Sight a well-defined high point on a high building.
4. Change face and repeat the procedure.

The correct sequence of these operations is

A : A-1, B-2, C-3, D-4

B : A-3, B-1, C-2, D-4

C : A-3, B-2, C-1, D-4

D : A-2, B-1, C-3, D-4

Q: 26) Which one of the following statements is correct?

A : The axis of plate level should be parallel to the vertical axis.

B : The axis of striding level must be parallel to the horizontal axis.

C : The axis of the altitude level must be perpendicular to the line of collimation

D : The line of collimation must be perpendicular to the plate level axis.

Q: 27) In a transit theodolite, error due to eccentricity of vernier is eliminated by reading

A : Both verniers

B : Both right swing and left swing

C : Right and left faces

D : Different parts of main scale

Q: 28) Which of the following set of terms does not relate to operation of a the odolite?

A : Transiting and inverting

B : Face left and face right

C : Right swing and left swing

D : Gauging and sounding

Q: 29) In a transit theodolite, any incidental error due to eccentricity of verniers is primarily counteracted by

A : Reading both the verniers

B : Reading different part of main scale

C : Reading right and left faces

D : Taking both right swing readings

Q: 30) A theodolite is called a transit theodolite, when its telescope can be revolved through a complete revolution about its

A : Vertical axis in an inclined plane

B : Horizontal axis in an inclined plane

C : Vertical axis in a horizontal plane

D : Horizontal axis in a vertical plane

Result : SSC JE 2019

SELECTED CANDIDATES


MANU GOEL
(CPWD)


KESHAV KUMAR
(CPWD)


UDAYVEER
(CPWD)


ANKIT SHARMA
(NTRO)


SAURABH
(BRO)


SURAJ SINGH
(BRO)


ARPIT VERMA
(BRO)


YURESH SINGH
(BRO)


RANVIR KUMAR
(BRO)


SAURABH KUMAR MEENA
(BRO)


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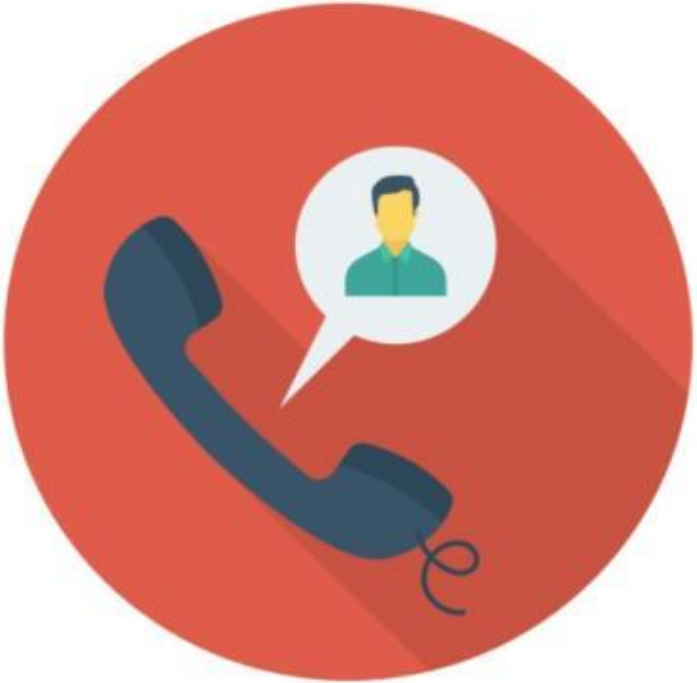

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