

PGCIL 01 Jul 2026 7 Posts

Participant ID	
Participant Name	
Test Center Name	
Test Date	01/07/2026
Test Time	5:00 PM - 7:00 PM
Subject	Junior Technician Trainee Surveyor

Section : Technical Knowledge Test

Q.1 Which step should be performed first when setting up a theodolite at a new station?

- Ans** ✓ 1. Position the tripod roughly over the survey point
- ✗ 2. Focus the telescope on the target
- ✗ 3. Suspend the plumb bob for fine alignment
- ✗ 4. Level the instrument precisely

Question ID : 4410091989501
 Option 1 ID : 4410097835784
 Option 2 ID : 4410097835783
 Option 3 ID : 4410097835782
 Option 4 ID : 4410097835781
 Chosen Option : 4

Q.2 If a survey requires measuring a horizontal angle between three points on a sloped site, which procedural adjustment ensures the measured angle is accurate?

- Ans** ✗ 1. Averaging readings from different instrument heights
- ✓ 2. Leveling the instrument precisely before taking readings
- ✗ 3. Taking all readings from the highest point only
- ✗ 4. Ignoring slope and measuring directly from the instrument

Question ID : 4410091966519
 Option 1 ID : 4410097746372
 Option 2 ID : 4410097746375
 Option 3 ID : 4410097746373
 Option 4 ID : 4410097746374
 Chosen Option : 4

Q.3 Which method could help minimize cumulative errors in an open traverse during fieldwork?

- Ans
- ☐ 1. Using only straight lines for the traverse
 - ☐ 2. Increasing the number of stations significantly in the traverse survey
 - ☐ 3. Repeating the traverse in reverse direction for checking the measurement without any control point
 - ☒ 4. All survey measurements are carefully repeated and checked against known reference point

Question ID : 4410092071194

Option 1 ID : 4410098153703

Option 2 ID : 4410098153702

Option 3 ID : 4410098153705

Option 4 ID : 4410098153704

Chosen Option : 4

Q.4 Which aspect of highway design should be considered to minimize water accumulation and ensure long-term pavement performance?

- Ans
- ☐ 1. Selection of reinforced concrete slabs
 - ☒ 2. Provision of proper surface drainage
 - ☐ 3. Application of high strength asphalt
 - ☐ 4. Use of compacted granular layers

Question ID : 4410092102061

Option 1 ID : 4410098275278

Option 2 ID : 4410098275277

Option 3 ID : 4410098275279

Option 4 ID : 4410098275276

Chosen Option : 2

Q.5 Which component ensures the GPS receiver operates accurately over time?

- Ans
- ☐ 1. Power supply unit
 - ☐ 2. User interface panel
 - ☐ 3. Radio frequency section processor
 - ☒ 4. Precision oscillator

Question ID : 4410091999082

Option 1 ID : 4410097872838

Option 2 ID : 4410097872840

Option 3 ID : 4410097872837

Option 4 ID : 4410097872839

Chosen Option : 2

Q.6 The method used to plot physical features for creating accurate topographic maps is:

- Ans**
- ☒ 1. Plane table surveying
 - ☐ 2. Coordinate grid system
 - ☐ 3. Compass bearing plotting
 - ☐ 4. Chain distance measurement

Question ID : 4410091410394
Option 1 ID : 4410095570541
Option 2 ID : 4410095570542
Option 3 ID : 4410095570540
Option 4 ID : 4410095570539
Chosen Option : 4

Q.7 A line has a whole circle bearing (WCB) of 275 degrees. What will be its reduced bearing (RB)?

- Ans**
- ☐ 1. S 85° W
 - ☐ 2. N 85° E
 - ☒ 3. N 85° W
 - ☐ 4. S 85° E

Question ID : 4410091990020
Option 1 ID : 4410097837821
Option 2 ID : 4410097837822
Option 3 ID : 4410097837823
Option 4 ID : 4410097837824
Chosen Option : 1

Q.8 Which of the following statements correctly describes a main station in a cadastral chain survey?

- Ans**
- ☐ 1. Stations used exclusively for checking the accuracy of the framework
 - ☐ 2. Stations located along the chain line only for taking offsets to nearby objects
 - ☒ 3. Stations connecting the boundaries of the survey area
 - ☐ 4. Stations established only at the midpoint of each survey line

Question ID : 4410091988170
Option 1 ID : 4410097830460
Option 2 ID : 4410097830457
Option 3 ID : 4410097830458
Option 4 ID : 4410097830459
Chosen Option : 3

Q.9 How can systematic errors in surveying most directly affect accuracy?

- Ans** ☒ 1. They cause all measurements to deviate from the true value in a consistent way.
- ☐ 2. They improve the precision but not the accuracy of results.
- ☐ 3. They make measurements fluctuate randomly around the true value.
- ☐ 4. They can be eliminated by repeating the measurement many times.

Question ID : 4410091968797
 Option 1 ID : 4410097755134
 Option 2 ID : 4410097755131
 Option 3 ID : 4410097755133
 Option 4 ID : 4410097755132
 Chosen Option : 1

Q.10 In a closed traverse for cadastral survey, the sum of interior angles of a polygon with 'n' sides is equal to _____.

- Ans** ☐ 1. $180^\circ \times n$
- ☒ 2. $(2n - 4) \times 90^\circ$
- ☐ 3. $90^\circ \times n$
- ☐ 4. 360° for all polygon

Question ID : 4410091988562
 Option 1 ID : 4410097832022
 Option 2 ID : 4410097832021
 Option 3 ID : 4410097832024
 Option 4 ID : 4410097832023
 Chosen Option : 1

Q.11 Which map projection would be most appropriate for mapping a country with large east-west longitudinal extent and minimal distortion?

- Ans** ☐ 1. Planar projection
- ☒ 2. Conic projection
- ☐ 3. Cylindrical projection
- ☐ 4. Azimuthal projection

Question ID : 4410091992083
 Option 1 ID : 4410097845958
 Option 2 ID : 4410097845959
 Option 3 ID : 4410097845957
 Option 4 ID : 4410097845960
 Chosen Option : 4

Q.12 How does the accuracy of field measurements in topographic surveying affect the final map produced?

- Ans
- ☐ 1. It improves the visual appearance of the map
 - ☐ 2. It speeds up the plotting process
 - ☒ 3. It directly determines the reliability of the mapped features
 - ☐ 4. It reduces the number of field visits required

Question ID : 4410091968881
Option 1 ID : 4410097755476
Option 2 ID : 4410097755477
Option 3 ID : 4410097755478
Option 4 ID : 4410097755475
Chosen Option : 3

Q.13 How does an intermediate sight differ from a fore sight in levelling operations?

- Ans
- ☐ 1. A fore sight is never the last reading taken
 - ☒ 2. An intermediate sight does not indicate a change in instrument position
 - ☐ 3. An intermediate sight is taken only on benchmarks
 - ☐ 4. An intermediate sight must always follow a back sight immediately

Question ID : 4410091973484
Option 1 ID : 4410097772970
Option 2 ID : 4410097772969
Option 3 ID : 4410097772968
Option 4 ID : 4410097772971
Chosen Option : 4

Q.14 Which of the following types of surveying is primarily classified based on the type of instrument used?

- Ans
- ☐ 1. Photogrammetric surveying
 - ☐ 2. Astronomical surveying
 - ☐ 3. Hydrographic surveying
 - ☒ 4. Chain surveying

Question ID : 4410092062255
Option 1 ID : 4410098118819
Option 2 ID : 4410098118820
Option 3 ID : 4410098118818
Option 4 ID : 4410098118821
Chosen Option : 3

Q.15 Which levelling method is used to determine the difference in elevation between two points separated by an obstacle, such as a river, by eliminating errors due to curvature, refraction, and collimation?

- Ans
- ☐ 1. Simple levelling
 - ☐ 2. Cross-section levelling
 - ☒ 3. Reciprocal levelling
 - ☐ 4. Differential levelling

Question ID : 4410091968673
Option 1 ID : 4410097754640
Option 2 ID : 4410097754639
Option 3 ID : 4410097754641
Option 4 ID : 4410097754642
Chosen Option : 4

Q.16 What is the fundamental principle of surveying?

- Ans
- ☐ 1. Measuring volumes
 - ☐ 2. Direct construction
 - ☐ 3. Part to whole
 - ☒ 4. Whole to part

Question ID : 4410091352834
Option 1 ID : 4410095343510
Option 2 ID : 4410095343511
Option 3 ID : 4410095343509
Option 4 ID : 4410095343508
Chosen Option : 1

Q.17 Which of the following statements is TRUE regarding the sides in a closed traverse?

- Ans
- ☐ 1. Each side connects random traverse station points in the survey area
 - ☐ 2. Sides can overlap in the traverse if needed for accuracy
 - ☐ 3. All sides in the traverse must be exactly equal in length
 - ☒ 4. Each side is measured between two consecutive traverse stations

Question ID : 4410092071197
Option 1 ID : 4410098153716
Option 2 ID : 4410098153717
Option 3 ID : 4410098153715
Option 4 ID : 4410098153714
Chosen Option : 3

Q.18 According to the definition of Geographic Information System (GIS), which feature is essential for an integrated GIS in surveying?

- Ans ☒ 1. Ability to handle and analyze both spatial and attribute data
- ☐ 2. Ability to map only administrative boundaries
- ☐ 3. Ability to display only images of land features
- ☐ 4. Ability to store only attribute data without spatial connection

Question ID : 4410091967410
Option 1 ID : 4410097749795
Option 2 ID : 4410097749793
Option 3 ID : 4410097749796
Option 4 ID : 4410097749794
Chosen Option : 1

Q.19 Which component of a GPS receiver is responsible for converting electromagnetic waves from satellites into electric current?

- Ans ☐ 1. Microprocessor for control
- ☐ 2. User interface command panel
- ☒ 3. Antenna with preamplifier
- ☐ 4. Radio frequency section with signal identification

Question ID : 4410091999065
Option 1 ID : 4410097872771
Option 2 ID : 4410097872769
Option 3 ID : 4410097872770
Option 4 ID : 4410097872772
Chosen Option : 2

Q.20 A surveyor needs to convert a whole circle bearing of 315 degrees to a reduced bearing. What is the CORRECT reduced bearing?

- Ans ☐ 1. S 45° W
- ☐ 2. N 45° E
- ☐ 3. S 45° E
- ☒ 4. N 45° W

Question ID : 4410092066524
Option 1 ID : 4410098135413
Option 2 ID : 4410098135412
Option 3 ID : 4410098135410
Option 4 ID : 4410098135411
Chosen Option : 1

Q.21 Plane surveying assumes the earth's surface to be flat. Why does this assumption make plane surveying unsuitable for very large areas?

- Ans
- ☐ 1. Elevation measurements become impossible
 - ☐ 2. Distances cannot be measured accurately
 - ☐ 3. Maps cannot be prepared efficiently
 - ☒ 4. Curvature errors become significant

Question ID : 4410092062236
Option 1 ID : 4410098118743
Option 2 ID : 4410098118744
Option 3 ID : 4410098118745
Option 4 ID : 4410098118742
Chosen Option : 1

Q.22 In designing earth roads, which factor is most critical to prevent surface water accumulation and related damage over time?

- Ans
- ☐ 1. Decorative stone block pavers
 - ☒ 2. Proper longitudinal and cross drainage
 - ☐ 3. High-strength steel reinforcement net
 - ☐ 4. Subsurface heating cable systems

Question ID : 4410092077249
Option 1 ID : 4410098177406
Option 2 ID : 4410098177407
Option 3 ID : 4410098177409
Option 4 ID : 4410098177408
Chosen Option : 3

Q.23 Why is it important to use bearings in creating site plans and maps?

- Ans
- ☐ 1. Bearings help in establishing property ground elevation
 - ☐ 2. Bearings are used for measuring the total area of the map
 - ☒ 3. Bearings allow accurate representation of directions between features
 - ☐ 4. Bearings are important for marking elevation contour lines

Question ID : 4410092051582
Option 1 ID : 4410098077030
Option 2 ID : 4410098077031
Option 3 ID : 4410098077028
Option 4 ID : 4410098077029
Chosen Option : 4

Q.24 What is the purpose of using a fixed reference station during a static GPS survey for a large area project?

- Ans
- ☐ 1. To reduce the power consumption of each GPS receiver
 - ☐ 2. To collect and process data faster at each station
 - ☐ 3. To increase the number of visible satellites and lowering reliability
 - ☒ 4. To provide a common coordinate reference for all measured points

Question ID : 4410092001383
Option 1 ID : 4410097881871
Option 2 ID : 4410097881870
Option 3 ID : 4410097881869
Option 4 ID : 4410097881868
Chosen Option : 1

Q.25 Why is surveying important before earthwork operations begin?

- Ans
- ☐ 1. To determine the alignment of reinforcement bars.
 - ☐ 2. To verify the performance of construction equipment.
 - ☐ 3. To inspect the quality of foundation concrete.
 - ☒ 4. To provide ground levels for excavation and filling.

Question ID : 4410092062216
Option 1 ID : 4410098118663
Option 2 ID : 4410098118665
Option 3 ID : 4410098118664
Option 4 ID : 4410098118662
Chosen Option : 4

Q.26 Which type of spatial feature is represented as a line in the vector data model?

- Ans
- ☐ 1. Land use zone
 - ☐ 2. City center location
 - ☐ 3. Forest zone
 - ☒ 4. River flow path

Question ID : 4410091987937
Option 1 ID : 4410097829530
Option 2 ID : 4410097829531
Option 3 ID : 4410097829529
Option 4 ID : 4410097829532
Chosen Option : 1

Q.27 When using the reiteration method, what should you do after completing a full cycle of angle measurements?

- Ans
- ☒ 1. Check whether the total measured angles equal 360°
 - ☐ 2. Repeat observations for only selected survey angles
 - ☐ 3. Ignore verification if the observed readings appear close
 - ☐ 4. Reset the instrument before repeating all readings

Question ID : 4410091989674

Option 1 ID : 4410097836454

Option 2 ID : 4410097836455

Option 3 ID : 4410097836453

Option 4 ID : 4410097836456

Chosen Option : 3

Q.28 The method used to calculate earthwork volume from areas enclosed by successive contour lines is:

- Ans
- ☐ 1. Grid interpolation
 - ☒ 2. Trapezoidal rule
 - ☐ 3. Profile plotting
 - ☐ 4. Direct levelling

Question ID : 4410091409101

Option 1 ID : 4410095565370

Option 2 ID : 4410095565371

Option 3 ID : 4410095565372

Option 4 ID : 4410095565369

Chosen Option : 4

Q.29 What indicates the theodolite is properly levelled during temporary adjustments?

- Ans
- ☒ 1. The bubble remains centered when rotated 180° degrees
 - ☐ 2. The bubble shifts to one side when rotated
 - ☐ 3. The bubble is at one end of the tube
 - ☐ 4. The bubble stays in the center only at one position

Question ID : 4410091989553

Option 1 ID : 4410097835992

Option 2 ID : 4410097835991

Option 3 ID : 4410097835989

Option 4 ID : 4410097835990

Chosen Option : 1

Q.30 During the initial survey of a site for a new public park, which information collected by surveyors will most influence the placement of walking paths and recreational facilities?

- Ans**
- ☐ 1. Verification of land titles and ownership history for documentation
 - ☐ 2. Precise demarcation of legal property lines and adjacent land holdings
 - ☐ 3. Identification of underground utility lines and service corridors
 - ☒ 4. Accurate topographic measurements of slopes, contours, and existing obstacles

Question ID : 4410091968904
Option 1 ID : 4410097755568
Option 2 ID : 4410097755569
Option 3 ID : 4410097755570
Option 4 ID : 4410097755567
Chosen Option : 4

Q.31 Which component adjusts the clarity of objects seen through the theodolite's telescope?

- Ans**
- ☐ 1. Vernier scale
 - ☒ 2. Focusing screw
 - ☐ 3. Clamp screw
 - ☐ 4. Cross hairs

Question ID : 4410091989068
Option 1 ID : 4410097834049
Option 2 ID : 4410097834048
Option 3 ID : 4410097834051
Option 4 ID : 4410097834050
Chosen Option : 3

Q.32 If a road passes through a floodplain, what is the primary purpose of constructing a higher embankment as part of the alignment strategy?

- Ans**
- ☒ 1. To keep pavement above flood levels
 - ☐ 2. To achieve uniform pavement color
 - ☐ 3. To reduce the number of culverts
 - ☐ 4. To provide additional parking space

Question ID : 4410092101728
Option 1 ID : 4410098273945
Option 2 ID : 4410098273944
Option 3 ID : 4410098273947
Option 4 ID : 4410098273946
Chosen Option : 4

Q.33 Why is it important to record the fore bearing during a traverse survey?

Ans ☒ 1. It helps in accurately plotting the direction of each survey line

- ☐ 2. It helps to measure the exact elevation of the terrain
- ☐ 3. It is used to calculate the area of the plot to be surveyed
- ☐ 4. It helps in identifying the station sequence for the survey

Question ID : 4410092067930

Option 1 ID : 4410098140705

Option 2 ID : 4410098140704

Option 3 ID : 4410098140702

Option 4 ID : 4410098140703

Chosen Option : 4

Q.34 In the direct method of contouring, what is the primary tool used to establish the horizontal control points?

Ans ☐ 1. Theodolite

☒ 2. Leveling staff

☐ 3. GPS receiver

☐ 4. Dumpy level

Question ID : 4410092126715

Option 1 ID : 4410098372886

Option 2 ID : 4410098372885

Option 3 ID : 4410098372884

Option 4 ID : 4410098372887

Chosen Option : 4

Q.35 Compass surveying is advantageous in rough terrain mainly because it:

Ans ☐ 1. Measures elevations with good accuracy

☐ 2. Eliminates most errors during plotting

☒ 3. Does not require long clear lines of sight

☐ 4. Requires no detailed field observations

Question ID : 4410092051532

Option 1 ID : 4410098076838

Option 2 ID : 4410098076839

Option 3 ID : 4410098076837

Option 4 ID : 4410098076836

Chosen Option : 1

Q.36 In route alignment, how does a contour map optimize highway cost and environmental feasibility?

- Ans
- ☐ 1. By standardizing geometric aesthetic parameters
 - ☐ 2. By generating localized macro-climate simulations
 - ☐ 3. By calculating microscopic structural mass balances
 - ☒ 4. By locating the line of an obligating contour gradient

Question ID : 4410092135211
Option 1 ID : 4410098404376
Option 2 ID : 4410098404379
Option 3 ID : 4410098404378
Option 4 ID : 4410098404377
Chosen Option : 1

Q.37 Why is surveying generally carried out before the planning and design of an engineering project?

- Ans
- ☒ 1. To obtain accurate site data for planning and design
 - ☐ 2. To prepare maintenance schedules beforehand
 - ☐ 3. To estimate construction materials required
 - ☐ 4. To determine labour requirements accurately

Question ID : 4410092062220
Option 1 ID : 4410098118678
Option 2 ID : 4410098118681
Option 3 ID : 4410098118679
Option 4 ID : 4410098118680
Chosen Option : 1

Q.38 Which of the following best describes a cadastral map?

- Ans
- ☐ 1. A map prepared from aerial photographs to show cyclonic areas
 - ☐ 2. A map showing topographical features such as hills and rivers
 - ☒ 3. A map showing the boundaries of fields, houses and land property
 - ☐ 4. A map showing the depth of water bodies for navigation purposes

Question ID : 4410091985012
Option 1 ID : 4410097818529
Option 2 ID : 4410097818527
Option 3 ID : 4410097818528
Option 4 ID : 4410097818530
Chosen Option : 3

Q.39 What does the Representative Fraction (R.F.) on a cadastral map represent?

- Ans ☒ 1. The ratio of map distance to actual ground distance
- ☐ 2. The ratio of magnetic bearing to true bearing values
- ☐ 3. The ratio of vertical rise to horizontal ground slope
- ☐ 4. The ratio of plotted area to surveyed area limits

Question ID : 4410091988772
Option 1 ID : 4410097832866
Option 2 ID : 4410097832865
Option 3 ID : 4410097832867
Option 4 ID : 4410097832868
Chosen Option : 1

Q.40 Which component of GIS is used for analysing and modifying data?

- Ans ☐ 1. Man power
- ☐ 2. Hardware
- ☐ 3. Information
- ☒ 4. Software

Question ID : 4410091967522
Option 1 ID : 4410097750239
Option 2 ID : 4410097750240
Option 3 ID : 4410097750237
Option 4 ID : 4410097750238
Chosen Option : 1

Q.41 Which type of surveying is best suited for determining property boundaries in a city area?

- Ans ☐ 1. Engineering surveying
- ☐ 2. Topographical surveying
- ☐ 3. Geological surveying
- ☒ 4. Cadastral surveying

Question ID : 4410092062196
Option 1 ID : 4410098118583
Option 2 ID : 4410098118584
Option 3 ID : 4410098118585
Option 4 ID : 4410098118582
Chosen Option : 1

Q.42 In compass surveying, which component is specifically used for visually aligning the instrument with a target object during observation?

- Ans
- ☐ 1. Prism
 - ☐ 2. Base plate
 - ☒ 3. Sighting vane
 - ☐ 4. Magnetic needle

Question ID : 4410091989805
Option 1 ID : 4410097836972
Option 2 ID : 4410097836971
Option 3 ID : 4410097836969
Option 4 ID : 4410097836970
Chosen Option : 4

Q.43 What does 'fore bearing' refer to in surveying?

- Ans
- ☐ 1. The bearing measured in the reverse direction
 - ☒ 2. The bearing measured in the direction of survey line
 - ☐ 3. The bearing measured at a right angle to the survey line
 - ☐ 4. The bearing measured using a compass in the opposite direction

Question ID : 4410092067916
Option 1 ID : 4410098140652
Option 2 ID : 4410098140653
Option 3 ID : 4410098140651
Option 4 ID : 4410098140650
Chosen Option : 1

Q.44 Which of the following devices is used for output maps from a Geographic Information System?

- Ans
- ☐ 1. Digitiser
 - ☐ 2. Processor
 - ☐ 3. Scanner
 - ☒ 4. Plotter

Question ID : 4410091967502
Option 1 ID : 4410097750158
Option 2 ID : 4410097750160
Option 3 ID : 4410097750157
Option 4 ID : 4410097750159
Chosen Option : 2

Q.45 In a surveying task, if repeated measurements are close to each other but far from the true value, what does this indicate?

- Ans**
- ☒ 1. The measurements are neither precise nor accurate.
 - ☒ 2. The measurements are both precise and accurate.
 - ☒ 3. The measurements are precise but not accurate.
 - ☒ 4. The measurements are accurate but not precise.

Question ID : 4410091968794
Option 1 ID : 4410097755120
Option 2 ID : 4410097755119
Option 3 ID : 4410097755121
Option 4 ID : 4410097755122
Chosen Option : 4

Q.46 What is the purpose of taking a back sight reading in the Height of Instrument method?

- Ans**
- ☒ 1. To determine the instrument height with respect to a known elevation
 - ☒ 2. To establish the survey datum
 - ☒ 3. To identify the lowest point on the ground surface
 - ☒ 4. To measure the horizontal distance to the staff

Question ID : 4410091973423
Option 1 ID : 4410097772725
Option 2 ID : 4410097772724
Option 3 ID : 4410097772727
Option 4 ID : 4410097772726
Chosen Option : 3

Q.47 In the context of Arithmetic interpolation for contouring, which of the following methods is used to estimate the elevation of a point between two known elevations?

- Ans**
- ☒ 1. Polynomial interpolation
 - ☒ 2. Spline interpolation
 - ☒ 3. Linear interpolation
 - ☒ 4. Trigonometric interpolation

Question ID : 4410092129992
Option 1 ID : 4410098384022
Option 2 ID : 4410098384021
Option 3 ID : 4410098384023
Option 4 ID : 4410098384020
Chosen Option : 3

Q.48 Which set of data is required to apply the prismoidal formula for calculating earthwork volume between two cross-sections?

- Ans ☒ 1. End areas, mid-area, and length
☐ 2. Ground levels, gradients, and offsets
☐ 3. End depths, side slopes, and width
☐ 4. End slopes, formation width, and length

Question ID : 4410092077042
 Option 1 ID : 4410098176641
 Option 2 ID : 4410098176642
 Option 3 ID : 4410098176640
 Option 4 ID : 4410098176639
 Chosen Option : 2

Q.49 In the process of constructing a water bound macadam road, what is the primary function of rolling after spreading the coarse aggregates and before adding screening materials?

- Ans ☐ 1. Rolling compacts the soil subgrade
☐ 2. Rolling spreads the screening materials
☐ 3. Rolling dries out excess moisture
☒ 4. Rolling ensures aggregate interlocking

Question ID : 4410092077255
 Option 1 ID : 4410098177430
 Option 2 ID : 4410098177433
 Option 3 ID : 4410098177432
 Option 4 ID : 4410098177431
 Chosen Option : 1

Q.50 In a closed traverse, if the sum of latitudes = 450 m, sum of departures = 300 m, and total error in latitude = 2 m, then the correction for each line's latitude is distributed:

- Ans ☒ 1. Proportional to its length only
☐ 2. Equal for all lines
☐ 3. Proportional to its individual latitude
☐ 4. Randomly

Question ID : 4410091516538
 Option 1 ID : 4410095989567
 Option 2 ID : 4410095989566
 Option 3 ID : 4410095989565
 Option 4 ID : 4410095989568
 Chosen Option : 2

Q.51 Which instrument is essential for taking readings for both longitudinal and cross sections?

- Ans
- ☐ 1. Chain
 - ☐ 2. Theodolite
 - ☐ 3. Compass
 - ☒ 4. Level

Question ID : 4410091352867
Option 1 ID : 4410095343643
Option 2 ID : 4410095343642
Option 3 ID : 4410095343640
Option 4 ID : 4410095343641
Chosen Option : 2

Q.52 Which scenario demonstrates an effective application of the raster data model for environmental monitoring in a city?

- Ans
- ☐ 1. Mapping street names by labeling city blocks in each grid cell
 - ☒ 2. Tracking urban heat islands by analyzing temperature values in grid cells
 - ☐ 3. Modeling the connectivity of sewer networks by assigning unique grid cell number
 - ☐ 4. Drawing property boundaries by assigning unique grid cell number for cadastral records

Question ID : 4410091969110
Option 1 ID : 4410097756401
Option 2 ID : 4410097756400
Option 3 ID : 4410097756398
Option 4 ID : 4410097756399
Chosen Option : 3

Q.53 Which type of levelling staff is generally the most durable and least susceptible to mechanical damage under rough field conditions?

- Ans
- ☒ 1. Solid staff
 - ☐ 2. Folding staff
 - ☐ 3. Wooden staff
 - ☐ 4. Telescopic staff

Question ID : 4410091973189
Option 1 ID : 4410097771800
Option 2 ID : 4410097771801
Option 3 ID : 4410097771803
Option 4 ID : 4410097771802
Chosen Option : 1

Q.54 Which type of map projection would best preserve true directions from the center point to all other points?

- Ans
- ☐ 1. Equal-area projection
 - ☐ 2. Conic projection
 - ☒ 3. Azimuthal projection
 - ☐ 4. Cylindrical projection

Question ID : 4410091989567
Option 1 ID : 4410097836045
Option 2 ID : 4410097836048
Option 3 ID : 4410097836047
Option 4 ID : 4410097836046
Chosen Option : 1

Q.55 Which of the following traditional instruments is primarily used to establish or set out a gradient in surveying?

- Ans
- ☐ 1. Planimeter
 - ☐ 2. Optical square
 - ☒ 3. Abney level
 - ☐ 4. Theodolite

Question ID : 4410092114116
Option 1 ID : 4410098323013
Option 2 ID : 4410098323016
Option 3 ID : 4410098323015
Option 4 ID : 4410098323014
Chosen Option : 1

Q.56 After the target has been accurately sighted and focused, which step is performed to obtain the vertical angle?

- Ans
- ☐ 1. Level the base again
 - ☐ 2. Set the horizontal circle to zero
 - ☒ 3. Read the vernier on the vertical circle
 - ☐ 4. Focus the eyepiece again

Question ID : 4410091987894
Option 1 ID : 4410097829358
Option 2 ID : 4410097829357
Option 3 ID : 4410097829360
Option 4 ID : 4410097829359
Chosen Option : 1

Q.57 What is the requirement for successful real-time kinematic GPS data collection?

- Ans
- ☐ 1. Single-frequency receivers in both units
 - ☐ 2. Movable antenna at the reference station and receiver
 - ☒ 3. Reliable data link between base station and rover
 - ☐ 4. Continuous tracking of only two satellites

Question ID : 4410092001841
Option 1 ID : 4410097883692
Option 2 ID : 4410097883693
Option 3 ID : 4410097883695
Option 4 ID : 4410097883694
Chosen Option : 4

Q.58 Select the most suitable approach if a road embankment must cross a low-lying area with recurring waterlogging during monsoon seasons.

- Ans
- ☒ 1. Increase embankment height and add drains
 - ☐ 2. Decrease pavement thickness for stability
 - ☐ 3. Reduce embankment width for cost savings
 - ☐ 4. Use untreated soil for embankment fill

Question ID : 4410092101727
Option 1 ID : 4410098273940
Option 2 ID : 4410098273943
Option 3 ID : 4410098273941
Option 4 ID : 4410098273942
Chosen Option : 2

Q.59 For a large-scale urban redevelopment, which application of topographic surveying is most crucial for ITI grade surveyors to prevent costly errors during construction?

- Ans
- ☒ 1. Identifying variations in site elevations and existing structures for accurate project planning
 - ☐ 2. Monitoring air and water quality to comply with environmental regulations
 - ☐ 3. Assessing traffic flow and pedestrian patterns for urban design improvements
 - ☐ 4. Mapping underground utilities to coordinate service connections for the project

Question ID : 4410091968905
Option 1 ID : 4410097755574
Option 2 ID : 4410097755573
Option 3 ID : 4410097755571
Option 4 ID : 4410097755572
Chosen Option : 2

Q.60 When measuring the fore bearing of line AB in a traverse, from which point is the bearing always taken?

- Ans
- ☐ 1. From point B towards point A
 - ☐ 2. From the midpoint of AB
 - ☐ 3. From both points simultaneously
 - ☒ 4. From point A towards point B

Question ID : 4410092067921

Option 1 ID : 4410098140670

Option 2 ID : 4410098140673

Option 3 ID : 4410098140671

Option 4 ID : 4410098140672

Chosen Option : 1

Q.61 During earthwork quantity estimation for a road project, what is the likely consequence of calculating volume using only the initial and final cross-sections while ignoring intermediate sections?

- Ans
- ☐ 1. Uniform distribution of excavation quantities
 - ☐ 2. Elimination of computation-related errors
 - ☐ 3. Improvement in volume calculation precision
 - ☒ 4. Reduction in earthwork estimation accuracy

Question ID : 4410092077049

Option 1 ID : 4410098176670

Option 2 ID : 4410098176668

Option 3 ID : 4410098176669

Option 4 ID : 4410098176667

Chosen Option : 4

Q.62 Which part of a theodolite is adjusted after using the clamp to fine-tune the position?

- Ans
- ☐ 1. Bubble tube
 - ☐ 2. Clamp
 - ☐ 3. Tribrach
 - ☒ 4. Tangent screw

Question ID : 4410091989466

Option 1 ID : 4410097835642

Option 2 ID : 4410097835643

Option 3 ID : 4410097835641

Option 4 ID : 4410097835644

Chosen Option : 2

Q.63 In the raster data model used in GIS, why is the cell size an important parameter for spatial data representation and analysis?

- Ans
- ☐ 1. It controls the file format used for storage
 - ☐ 2. It changes the color scheme of the map
 - ☐ 3. It sets the number of attributes per feature
 - ☒ 4. It determines the spatial resolution of the data

Question ID : 4410091969152
Option 1 ID : 4410097756563
Option 2 ID : 4410097756564
Option 3 ID : 4410097756565
Option 4 ID : 4410097756562
Chosen Option : 1

Q.64 What is the function of the magnetic needle in a compass?

- Ans
- ☐ 1. Serves as a protective cover
 - ☒ 2. Indicates magnetic north
 - ☐ 3. Determines the map scale
 - ☐ 4. Measures distance travelled

Question ID : 4410092051539
Option 1 ID : 4410098076867
Option 2 ID : 4410098076864
Option 3 ID : 4410098076866
Option 4 ID : 4410098076865
Chosen Option : 4

Q.65 When a traverse station peg is missing, which method is most suitable for re-establishing its position?

- Ans
- ☒ 1. Using original traverse measurements from adjacent known stations
 - ☐ 2. Using planimeter measurement of enclosed area on the map
 - ☐ 3. Using levelling observations from a benchmark point
 - ☐ 4. Using aerial imagery for approximate ground identification

Question ID : 4410091988305
Option 1 ID : 4410097830994
Option 2 ID : 4410097830993
Option 3 ID : 4410097830996
Option 4 ID : 4410097830995
Chosen Option : 1

Q.66 A survey line has a whole circle bearing of 225 degrees. What is its reduced (quadrantal) bearing?

- Ans
- ☒ 1. N 45° W
 - ☒ 2. S 45° W
 - ☒ 3. S 45° E
 - ☒ 4. N 45° E

Question ID : 4410092066418
Option 1 ID : 4410098135009
Option 2 ID : 4410098135008
Option 3 ID : 4410098135006
Option 4 ID : 4410098135007
Chosen Option : 4

Q.67 The operation of revolving the theodolite's telescope through 180° in a vertical plane about its horizontal axis, thus making it point exactly in the opposite direction is known as:

- Ans
- ☒ 1. Face left
 - ☒ 2. Lining in
 - ☒ 3. Transit
 - ☒ 4. Face right

Question ID : 4410091987796
Option 1 ID : 4410097828967
Option 2 ID : 4410097828968
Option 3 ID : 4410097828965
Option 4 ID : 4410097828966
Chosen Option : 2

Q.68 In surveying, measurements are primarily concerned with determining :

- Ans
- ☒ 1. Cost, time, and quality of construction works
 - ☒ 2. Location, distance, direction, and elevation of points
 - ☒ 3. Strength, stability, and safety of structures
 - ☒ 4. Area, volume, and weight of materials

Question ID : 4410092062230
Option 1 ID : 4410098118721
Option 2 ID : 4410098118718
Option 3 ID : 4410098118720
Option 4 ID : 4410098118719
Chosen Option : 4

Q.69 Why is the contour interval a critical aspect of interpreting a topographical map?

- Ans
- ☐ 1. It provides the ratio for scaling map measurements
 - ☐ 2. It shows the horizontal distance between mapped features
 - ☒ 3. It specifies the vertical distance between adjacent contour lines
 - ☐ 4. It marks the orientation of the map

Question ID : 4410091969026
Option 1 ID : 4410097756068
Option 2 ID : 4410097756066
Option 3 ID : 4410097756067
Option 4 ID : 4410097756069
Chosen Option : 4

Q.70 In the context of contouring survey, what is the primary purpose of gradient determination?

- Ans
- ☒ 1. To measure the steepness of a slope
 - ☐ 2. To calculate the area of a plot
 - ☐ 3. To find the volume of earth to be excavated
 - ☐ 4. To determine the exact location of a point

Question ID : 4410092135212
Option 1 ID : 4410098404381
Option 2 ID : 4410098404382
Option 3 ID : 4410098404380
Option 4 ID : 4410098404383
Chosen Option : 3

Q.71 During the final location survey, which factor is examined to ensure that the selected alignment can be constructed without excessive excavation and embankment work?

- Ans
- ☐ 1. Location of nearby commercial centers
 - ☐ 2. Estimated future traffic growth rate
 - ☒ 3. Detailed terrain profile along route
 - ☐ 4. Availability of roadside amenities nearby

Question ID : 4410092101474
Option 1 ID : 4410098272930
Option 2 ID : 4410098272929
Option 3 ID : 4410098272928
Option 4 ID : 4410098272931
Chosen Option : 1

Q.72 What is the primary purpose of recording survey observations in a field book?

- Ans
- ☒ 1. To replace the need for office-based data processing
 - ☒ 2. To prepare the final survey drawings directly
 - ☒ 3. To document measurements for plotting and computation
 - ☒ 4. To classify survey stations by their importance

Question ID : 4410092062210
Option 1 ID : 4410098118639
Option 2 ID : 4410098118640
Option 3 ID : 4410098118638
Option 4 ID : 4410098118641
Chosen Option : 4

Q.73 During the design of a horizontal curve, which factor is combined with superelevation to ensure safety and comfort for vehicles negotiating the curve?

- Ans
- ☒ 1. Gradient adjustment for slope change
 - ☒ 2. Side friction factor for lateral force
 - ☒ 3. Lane marking for visual guidance
 - ☒ 4. Stopping sight distance determination

Question ID : 4410092077224
Option 1 ID : 4410098177311
Option 2 ID : 4410098177313
Option 3 ID : 4410098177312
Option 4 ID : 4410098177310
Chosen Option : 3

Q.74 A surveyor notices that the magnetic meridian at a site has shifted over several years. What could be the primary cause of this phenomenon?

- Ans
- ☒ 1. Construction activities near the survey site
 - ☒ 2. Errors in compass calibration
 - ☒ 3. Gradual changes in Earth's magnetic field
 - ☒ 4. Seasonal changes in weather patterns

Question ID : 4410092067146
Option 1 ID : 4410098137731
Option 2 ID : 4410098137733
Option 3 ID : 4410098137732
Option 4 ID : 4410098137730
Chosen Option : 3

Q.75 Which surveying principle should be followed to minimize the accumulation of errors during a survey?

- Ans
- ☐ 1. Use only random check lines for verification
 - ☒ 2. Work from whole to part to reduce cumulative errors
 - ☐ 3. Focus only on detail points to save time
 - ☐ 4. Work from part to whole for flexibility

Question ID : 4410092062199
Option 1 ID : 4410098118596
Option 2 ID : 4410098118597
Option 3 ID : 4410098118594
Option 4 ID : 4410098118595
Chosen Option : 1

Q.76 Which quantity is multiplied by four in the prismoidal formula for earthwork volume calculation?

- Ans
- ☐ 1. Area of the smaller end section
 - ☐ 2. Length measured between the sections
 - ☒ 3. Area of the middle cross section
 - ☐ 4. Average value of the end sections

Question ID : 4410091979009
Option 1 ID : 4410097794935
Option 2 ID : 4410097794937
Option 3 ID : 4410097794938
Option 4 ID : 4410097794936
Chosen Option : 3

Q.77 Which of the following is the first step in converting a Whole Circle Bearing (WCB) to a Quadrantal Bearing (QB)?

- Ans
- ☒ 1. Determine the quadrant in which the bearing lies
 - ☐ 2. Assign the direction N/S to the bearing
 - ☐ 3. Add 180 degrees to the bearing
 - ☐ 4. Subtract 90 degrees from the bearing

Question ID : 4410092066647
Option 1 ID : 4410098135887
Option 2 ID : 4410098135886
Option 3 ID : 4410098135889
Option 4 ID : 4410098135888
Chosen Option : 1

Q.78 Which component of a prismatic compass is used to level the instrument before taking bearings?

- Ans ☒ 1. Levelling screw
☐ 2. Sighting vane
☐ 3. Centering compass
☐ 4. Adjusting prism

Question ID : 4410091409062
Option 1 ID : 4410095565215
Option 2 ID : 4410095565216
Option 3 ID : 4410095565213
Option 4 ID : 4410095565214
Chosen Option : 3

Q.79 Why is a stable power supply critical for GPS equipment during fieldwork?

- Ans ☐ 1. It calibrates the equipment
☐ 2. It improves satellite signals
☐ 3. It speeds up data transfer
☒ 4. It ensures continuous operation

Question ID : 4410091998781
Option 1 ID : 4410097871663
Option 2 ID : 4410097871664
Option 3 ID : 4410097871661
Option 4 ID : 4410097871662
Chosen Option : 4

Q.80 Which sequence correctly represents the order of staff readings in a typical levelling instrument setup?

- Ans ☒ 1. Back sight → Intermediate sight → Fore sight
☐ 2. Fore sight → Intermediate sight → Back sight
☐ 3. Intermediate sight → Fore sight → Back sight
☐ 4. Fore sight → Back sight → Intermediate sight

Question ID : 4410091973683
Option 1 ID : 4410097773748
Option 2 ID : 4410097773749
Option 3 ID : 4410097773751
Option 4 ID : 4410097773750
Chosen Option : 1

Q.81 In the Height of Instrument (H.I.) method, which value is subtracted from the Height of Instrument to obtain the Reduced Level (R.L.) of a point?

- Ans
- ☒ 1. Staff reading at the point
 - ☐ 2. Instrument height reading
 - ☐ 3. Benchmark Reduced Level value
 - ☐ 4. Horizontal distance to the point

Question ID : 4410091973571
Option 1 ID : 4410097773311
Option 2 ID : 4410097773310
Option 3 ID : 4410097773308
Option 4 ID : 4410097773309
Chosen Option : 4

Q.82 Which of the following statements about contour lines is correct?

- Ans
- ☐ 1. Contour lines cross each other at steep slopes.
 - ☐ 2. Contour lines always form straight lines in flat terrain.
 - ☒ 3. Contour lines are closer together on steep slopes and farther apart on gentle slopes.
 - ☐ 4. Contour lines can intersect a permanent structure like a building.

Question ID : 4410091332883
Option 1 ID : 4410095263120
Option 2 ID : 4410095263122
Option 3 ID : 4410095263121
Option 4 ID : 4410095263123
Chosen Option : 1

Q.83 During cadastral map maintenance, what is the primary purpose of updating cadastral records?

- Ans
- ☒ 1. To reflect changes in parcel boundaries and ownership
 - ☐ 2. To establish temporary survey control stations
 - ☐ 3. To classify soil types for land development
 - ☐ 4. To compute magnetic bearings for traverses

Question ID : 4410091988922
Option 1 ID : 4410097833463
Option 2 ID : 4410097833462
Option 3 ID : 4410097833465
Option 4 ID : 4410097833464
Chosen Option : 2

Q.84 When measuring a baseline with a chain, what practice helps minimize errors due to uneven ground?

- Ans
- ☐ 1. Measuring from only one end of the chain
 - ☐ 2. Stretching the chain directly over the slope for speed
 - ☐ 3. Ignoring slope corrections during measurement
 - ☒ 4. Breaking the chain into horizontal segments across slopes

Question ID : 4410091966500
Option 1 ID : 4410097746301
Option 2 ID : 4410097746300
Option 3 ID : 4410097746303
Option 4 ID : 4410097746302
Chosen Option : 1

Q.85 Which action helps to minimize parallax error during a levelling survey?

- Ans
- ☐ 1. Placing the instrument on elevated ground
 - ☐ 2. Taking repeated staff readings
 - ☒ 3. Properly focusing the eyepiece and objective lens
 - ☐ 4. Using a longer levelling staff

Question ID : 4410091968830
Option 1 ID : 4410097755265
Option 2 ID : 4410097755264
Option 3 ID : 4410097755266
Option 4 ID : 4410097755263
Chosen Option : 4

Q.86 A city authority requires information on legal property boundaries, existing surface features, and ground relief before preparing a redevelopment plan for a public park. Which combination of surveys would provide this information?

- Ans
- ☐ 1. Topographic survey and route survey
 - ☐ 2. Engineering survey and leveling survey
 - ☐ 3. Control survey and engineering survey
 - ☒ 4. Cadastral survey and topographic survey

Question ID : 4410092062227
Option 1 ID : 4410098118708
Option 2 ID : 4410098118709
Option 3 ID : 4410098118707
Option 4 ID : 4410098118706
Chosen Option : 2

Q.87 Which practice best illustrates the principle of 'working from whole to part' in surveying?

- Ans ☒ 1. Establishing main control points before detailing smaller areas
- ☐ 2. Drawing a detailed map before field measurements
- ☐ 3. Starting with the smallest details and expanding outward
- ☐ 4. Dividing the area into unrelated sections for measurement

Question ID : 4410092062246

Option 1 ID : 4410098118784

Option 2 ID : 4410098118785

Option 3 ID : 4410098118782

Option 4 ID : 4410098118783

Chosen Option : 2

Q.88 In the ordinary method of theodolite surveying, what information is indicated by the horizontal circle during angle measurement?

- Ans ☐ 1. It directly provides the distance between stations
- ☐ 2. It displays the vertical angle between two objects
- ☒ 3. It shows the graduated readings used to calculate the angle
- ☐ 4. It indicates the coordinates of the measured points

Question ID : 4410091987863

Option 1 ID : 4410097829234

Option 2 ID : 4410097829231

Option 3 ID : 4410097829233

Option 4 ID : 4410097829232

Chosen Option : 4

Q.89 One of the primary uses of surveying in civil engineering is:

- Ans ☐ 1. Estimating weather conditions
- ☒ 2. Planning roads, bridges, and buildings
- ☐ 3. Manufacturing concrete
- ☐ 4. Soil testing

Question ID : 4410091402563

Option 1 ID : 4410095539510

Option 2 ID : 4410095539508

Option 3 ID : 4410095539509

Option 4 ID : 4410095539507

Chosen Option : 2

Q.90 A surveyor records a Quadrantal Bearing as N 60° E for a boundary line. If another line is observed as S 60° W, what is the difference between their Whole Circle Bearings?

- Ans
- ☐ 1. 120°
 - ☐ 2. 90°
 - ☒ 3. 180°
 - ☐ 4. 60°

Question ID : 4410092067019
Option 1 ID : 4410098137233
Option 2 ID : 4410098137232
Option 3 ID : 4410098137231
Option 4 ID : 4410098137230
Chosen Option : 1

Q.91 While plotting a chain survey for a cadastral plan, in which direction should the plan always be oriented?

- Ans
- ☐ 1. South direction so the top of the drawing sheet represents south
 - ☐ 2. Can be oriented in any direction depending on the shape of the area
 - ☒ 3. North direction so the top of the drawing sheet represents north
 - ☐ 4. East direction so the top of the drawing sheet represents east

Question ID : 4410091988608
Option 1 ID : 4410097832205
Option 2 ID : 4410097832207
Option 3 ID : 4410097832206
Option 4 ID : 4410097832208
Chosen Option : 1

Q.92 Which of the following site conditions is ideal for static GPS data collection?

- Ans
- ☒ 1. Clear view of the sky and low multipath environment
 - ☐ 2. Long underground transportation passages
 - ☐ 3. Surrounded by tall buildings and clear view of the sky
 - ☐ 4. Under dense forest canopy and unclear view of the sky

Question ID : 4410092001131
Option 1 ID : 4410097880861
Option 2 ID : 4410097880860
Option 3 ID : 4410097880863
Option 4 ID : 4410097880862
Chosen Option : 2

Q.93 Which instrument is primarily used to determine the magnetic meridian in the field?

Ans ☒ 1. Surveyor's compass

☐ 2. Protractor

☐ 3. Dumpy level

☐ 4. Theodolite

Question ID : 4410092067140

Option 1 ID : 4410098137706

Option 2 ID : 4410098137707

Option 3 ID : 4410098137709

Option 4 ID : 4410098137708

Chosen Option : 1

Q.94 Why does atmospheric refraction error become more significant during midday levelling in open areas?

Ans ☐ 1. The levelling staff becomes magnetized due to heat

☐ 2. Sunlight causes misalignment of the instrument optics

☐ 3. The bubble tube expands rapidly in sunlight

☒ 4. Ground heating creates variations in air density near the surface

Question ID : 4410091973660

Option 1 ID : 4410097773659

Option 2 ID : 4410097773656

Option 3 ID : 4410097773658

Option 4 ID : 4410097773657

Chosen Option : 4

Q.95 Which of the following is a key advantage of using the direct method of contouring in surveying?

Ans ☐ 1. Easier to use in dense vegetation

☐ 2. Faster data collection

☒ 3. High accuracy in determining elevation

☐ 4. Lower cost of equipment

Question ID : 4410092126716

Option 1 ID : 4410098372889

Option 2 ID : 4410098372891

Option 3 ID : 4410098372888

Option 4 ID : 4410098372890

Chosen Option : 3

Q.96 A construction company is planning a large rectangular park. For accurate area calculation, they must decide whether to use plane or geodetic surveying. If the park measures 10 km by 15 km and the company wants to ignore earth curvature in their calculations, which surveying assumption is most appropriate and why?

- Ans**
- ☒ 1. Geodetic surveying is required because every survey must consider earth's curvature regardless of size.
 - ☒ 2. Plane surveying is not suitable for any area larger than 1 km, so geodetic must be used.
 - ☒ 3. Both plane and geodetic assumptions must be used together for all area calculations.
 - ☒ 4. Plane surveying is sufficient because the area is small enough for earth curvature to be negligible.

Question ID : 4410092062233

Option 1 ID : 4410098118730

Option 2 ID : 4410098118732

Option 3 ID : 4410098118731

Option 4 ID : 4410098118733

Chosen Option : 2

Q.97 In a compass traverse, the observed differences between the fore bearing and back bearing for four survey lines are as follows: AB (181°), BC (178°), CD (180°), DE (180°). Which station is most likely affected by local attraction?

- Ans**
- ☒ 1. Station C
 - ☒ 2. Station E
 - ☒ 3. Station B
 - ☒ 4. Station D

Question ID : 4410092071190

Option 1 ID : 4410098153687

Option 2 ID : 4410098153686

Option 3 ID : 4410098153689

Option 4 ID : 4410098153688

Chosen Option : 4

Q.98 How does a topographical map aid in the preliminary design of a railway line?

- Ans**
- ☒ 1. It highlights slopes and contours to select a route with gentle gradients
 - ☒ 2. It lists historical landmarks to avoid protected sites
 - ☒ 3. It maps underground utility lines to prevent accidental damage
 - ☒ 4. It indicates political boundaries to avoid jurisdictional disputes

Question ID : 4410091969221

Option 1 ID : 4410097756844

Option 2 ID : 4410097756842

Option 3 ID : 4410097756843

Option 4 ID : 4410097756845

Chosen Option : 1

Q.99 Which of the following is NOT a technique to improve GPS accuracy?

- Ans
- ☐ 1. Using differential measurement methods
 - ☐ 2. Selecting advanced receiver models
 - ☐ 3. Choosing open locations for measurements
 - ☒ 4. Enabling power saving mode for better reception

Question ID : 4410091999795
Option 1 ID : 4410097875689
Option 2 ID : 4410097875690
Option 3 ID : 4410097875691
Option 4 ID : 4410097875692
Chosen Option : 4

Q.100 A level surface is defined as:

- Ans
- ☐ 1. A plane surface passing through the instrument axis
 - ☐ 2. A straight line tangent to the Earth's surface
 - ☒ 3. A curved surface parallel to the mean spheroidal surface of the Earth
 - ☐ 4. The top surface of flowing water body

Question ID : 4410091478535
Option 1 ID : 4410095841477
Option 2 ID : 4410095841476
Option 3 ID : 4410095841475
Option 4 ID : 4410095841478
Chosen Option : 2

Q.101 Which component of GPS equipment is responsible for receiving signals from satellites during a survey?

- Ans
- ☐ 1. Control panel
 - ☒ 2. Antenna unit
 - ☐ 3. Battery pack
 - ☐ 4. Data logger

Question ID : 4410091998706
Option 1 ID : 4410097871385
Option 2 ID : 4410097871387
Option 3 ID : 4410097871388
Option 4 ID : 4410097871386
Chosen Option : 1

Q.102 Which of the following is NOT a purpose of preparing a cadastral map?

- Ans
- ☒ 1. To fix the boundaries of fields and houses
 - ☒ 2. To determine the depth of water bodies near land boundaries
 - ☒ 3. To calculate land area for ownership records
 - ☒ 4. To facilitate transfer of land property from one owner to another

Question ID : 4410091985022

Option 1 ID : 4410097818569

Option 2 ID : 4410097818571

Option 3 ID : 4410097818570

Option 4 ID : 4410097818572

Chosen Option : 1

Q.103 Why is a levelling staff used at regular intervals during the construction of drainage channels?

- Ans
- ☒ 1. To locate underground utilities
 - ☒ 2. To mark the alignment of channel walls
 - ☒ 3. To identify the position of manholes
 - ☒ 4. To determine ground elevations for slope assessment

Question ID : 4410091973211

Option 1 ID : 4410097771884

Option 2 ID : 4410097771886

Option 3 ID : 4410097771887

Option 4 ID : 4410097771885

Chosen Option : 2

Q.104 During field work, why is it important for surveyors to communicate clearly with team members?

- Ans
- ☒ 1. To enforce strict discipline on the team
 - ☒ 2. To maintain social relationships among team members
 - ☒ 3. To speed up equipment transport between locations
 - ☒ 4. To ensure tasks are coordinated and errors are minimized

Question ID : 4410091968809

Option 1 ID : 4410097755180

Option 2 ID : 4410097755179

Option 3 ID : 4410097755182

Option 4 ID : 4410097755181

Chosen Option : 2

Q.105 During the final location survey of a highway project, why are both topographic and geological investigations carried out before fixing the alignment?

- Ans
- ☒ 1. Combined data determines traffic regulations
 - ☒ 2. Combined data standardizes road markings
 - ☒ 3. Combined data optimizes alignment and cost
 - ☒ 4. Combined data increases pavement thickness

Question ID : 4410092101475
Option 1 ID : 4410098272934
Option 2 ID : 4410098272935
Option 3 ID : 4410098272932
Option 4 ID : 4410098272933
Chosen Option : 4

Q.106 If the vertical circle of a theodolite is not functioning, which of the following tasks becomes impossible?

- Ans
- ☒ 1. Setting up the instrument on a tripod
 - ☒ 2. Reading horizontal angles
 - ☒ 3. Measuring the elevation angle to a point
 - ☒ 4. Focusing on the target

Question ID : 4410091989418
Option 1 ID : 4410097835451
Option 2 ID : 4410097835452
Option 3 ID : 4410097835450
Option 4 ID : 4410097835449
Chosen Option : 4

Q.107 The Height of Instrument is 150.50 m and the staff reading at a point is 1.35 m. What is the Reduced Level (R.L.) of the point?

- Ans
- ☒ 1. 149.15 meters
 - ☒ 2. 151.35 meters
 - ☒ 3. 148.15 meters
 - ☒ 4. 151.85 meters

Question ID : 4410091973573
Option 1 ID : 4410097773316
Option 2 ID : 4410097773319
Option 3 ID : 4410097773318
Option 4 ID : 4410097773317
Chosen Option : 1

Q.108 At the beginning of a cadastral survey, which information should be entered in the field book?

- Ans
- ☐ 1. Closing distances, traverse adjustment, bearing corrections, and area check
 - ☒ 2. Survey dates, surveyors' names, station symbols, and line sketches
 - ☐ 3. Survey scale, plot area, boundary lengths, and land value
 - ☐ 4. Chainages, offset measurements, benchmark levels, and contour data

Question ID : 4410091988651
Option 1 ID : 4410097832380
Option 2 ID : 4410097832378
Option 3 ID : 4410097832377
Option 4 ID : 4410097832379
Chosen Option : 2

Q.109 Why is it important for a surveyor to check instrument calibration before starting field work?

- Ans
- ☒ 1. To prevent errors caused by faulty or misaligned equipment
 - ☐ 2. To guarantee safety from wild animals in the area
 - ☐ 3. To increase the overall speed of field operations
 - ☐ 4. To reduce paperwork required at the end of the day

Question ID : 4410091968806
Option 1 ID : 4410097755169
Option 2 ID : 4410097755170
Option 3 ID : 4410097755168
Option 4 ID : 4410097755167
Chosen Option : 1

Q.110 Which surveying method establishes positions through a series of connected survey lines?

- Ans
- ☐ 1. Hydrographical survey
 - ☐ 2. Triangulation survey
 - ☐ 3. Plane Table survey
 - ☒ 4. Traverse survey

Question ID : 4410092062257
Option 1 ID : 4410098118829
Option 2 ID : 4410098118826
Option 3 ID : 4410098118828
Option 4 ID : 4410098118827
Chosen Option : 1

Q.111 Which term is used for the staff reading that, when added to the benchmark elevation, gives the Height of Instrument (H.I.)?

- Ans ☒ 1. Back sight
- ☐ 2. Turning point
- ☐ 3. Fore sight
- ☐ 4. Intermediate sight

Question ID : 4410091973440
Option 1 ID : 4410097772795
Option 2 ID : 4410097772793
Option 3 ID : 4410097772794
Option 4 ID : 4410097772792
Chosen Option : 2

Q.112 Which statement correctly distinguishes eyepiece focusing from objective focusing in a theodolite?

- Ans ☒ 1. Eyepiece focusing sharpens the cross-hairs, whereas objective focusing sharpens the image of the object.
- ☐ 2. Eyepiece focusing sharpens the object image, whereas objective focusing sharpens the cross-hairs.
- ☐ 3. Both operations are intended directly to level the instrument.
- ☐ 4. Both operations are performed using the focusing screw.

Question ID : 4410091987774
Option 1 ID : 4410097828877
Option 2 ID : 4410097828878
Option 3 ID : 4410097828880
Option 4 ID : 4410097828879
Chosen Option : 1

Q.113 What is the function of the magnetic needle in a compass survey instrument?

- Ans ☐ 1. To set up survey stations
- ☒ 2. To align with Earth's magnetic field
- ☐ 3. To read the bearing on the dial
- ☐ 4. To hold the compass steady

Question ID : 4410091989807
Option 1 ID : 4410097836977
Option 2 ID : 4410097836978
Option 3 ID : 4410097836980
Option 4 ID : 4410097836979
Chosen Option : 1

Q.114 If only one station in a traverse is affected by local attraction, what is the correct approach to adjust the bearings?

- Ans
- ☒ 1. Ignore the detected error
 - ☒ 2. Correct the bearings at the affected station only
 - ☒ 3. Correct all stations except the first
 - ☒ 4. Distribute corrections equally to all stations

Question ID : 4410092071179
Option 1 ID : 4410098153645
Option 2 ID : 4410098153644
Option 3 ID : 4410098153642
Option 4 ID : 4410098153643
Chosen Option : 4

Q.115 Which of the following is NOT a benefit of the repetition method in measuring horizontal angles?

- Ans
- ☒ 1. It improves measurement accuracy
 - ☒ 2. It minimizes random errors
 - ☒ 3. It helps detect mistakes
 - ☒ 4. It eliminates the need for reading verniers

Question ID : 4410091989653
Option 1 ID : 4410097836374
Option 2 ID : 4410097836375
Option 3 ID : 4410097836373
Option 4 ID : 4410097836376
Chosen Option : 1

Q.116 Before setting up the theodolite for temporary adjustments, which of the following precaution ensures equal movement of the instrument in all directions?

- Ans
- ☒ 1. The wing nuts on the tripod legs are left loose for flexibility
 - ☒ 2. The levelling screws are tightened fully at one end of their run
 - ☒ 3. The shifting head of the theodolite is at its centre
 - ☒ 4. The vernier scale is set to zero before observations

Question ID : 4410091987781
Option 1 ID : 4410097828907
Option 2 ID : 4410097828906
Option 3 ID : 4410097828905
Option 4 ID : 4410097828908
Chosen Option : 4

Q.117 If all detail points are located directly without first establishing control points, what is the most likely consequence?

- Ans
- ☒ 1. Detection and correction of errors
 - ☒ 2. Reduction and minimization of errors
 - ☒ 3. Accumulation and propagation of errors
 - ☒ 4. Identification and elimination of errors

Question ID : 4410092062251
Option 1 ID : 4410098118802
Option 2 ID : 4410098118803
Option 3 ID : 4410098118804
Option 4 ID : 4410098118805
Chosen Option : 4

Q.118 Which method is commonly used for interpolating contour points between surveyed locations in contour mapping?

- Ans
- ☒ 1. By direct leveling
 - ☒ 2. By arithmetic calculation
 - ☒ 3. By GPS measurement
 - ☒ 4. By indirect levelling

Question ID : 4410091381296
Option 1 ID : 4410095456378
Option 2 ID : 4410095456379
Option 3 ID : 4410095456380
Option 4 ID : 4410095456377
Chosen Option : 1

Q.119 Which atmospheric layer is mainly responsible for the largest GPS signal delay due to refraction?

- Ans
- ☒ 1. Ionosphere
 - ☒ 2. Stratosphere
 - ☒ 3. Troposphere
 - ☒ 4. Exosphere

Question ID : 4410091999863
Option 1 ID : 4410097875962
Option 2 ID : 4410097875963
Option 3 ID : 4410097875961
Option 4 ID : 4410097875964
Chosen Option : 1

Q.120 A reversible level differs from an automatic level mainly because it:

- Ans ☒ 1. Allows the telescope to be reversed for error checking
- ☐ 2. Uses a compensator for automatic levelling
- ☐ 3. Requires an external power supply
- ☐ 4. Uses electronic distance measurement

Question ID : 4410091973131
Option 1 ID : 4410097771566
Option 2 ID : 4410097771567
Option 3 ID : 4410097771564
Option 4 ID : 4410097771565
Chosen Option : 4

Section : General English

Q.1 Fill in the blank with a suitable article.

I happened to meet ____ university student from the US yesterday.

- Ans ☐ 1. the
- ☐ 2. no article
- ☐ 3. an
- ☒ 4. a

Question ID : 441009193883
Option 1 ID : 441009763604
Option 2 ID : 441009763605
Option 3 ID : 441009763603
Option 4 ID : 441009763602
Chosen Option : 1

Q.2 Choose the word that best expresses the meaning of the underlined word in the sentence.

The professor's meticulous notes helped students understand the complex theory clearly.

- Ans ☐ 1. casual
- ☒ 2. detailed
- ☐ 3. vague
- ☐ 4. careless

Question ID : 4410091473034
Option 1 ID : 4410095819996
Option 2 ID : 4410095819994
Option 3 ID : 4410095819995
Option 4 ID : 4410095819993
Chosen Option : 2

Q.3 Select the option that most precisely completes the sentence.
The aircraft flew ____ the mountain range before descending into the valley.

- Ans ☒ 1. across
☐ 2. about
☐ 3. along
☐ 4. behind

Question ID : 4410091676570
Option 1 ID : 4410096614927
Option 2 ID : 4410096614929
Option 3 ID : 4410096614928
Option 4 ID : 4410096614930
Chosen Option : 2

Q.4 Read sentence carefully and choose the correct meaning of the underlined proverb from the given options.

Neha kept complaining about the broken chair, and eventually the school replaced it. Her friend laughed, "Well, you know, the squeaky wheel gets the grease."

- Ans ☐ 1. Machines work better when they're noisy
☐ 2. Complaining loudly always causes trouble
☐ 3. People who make noise are always rewarded
☒ 4. Those who speak up about problems are more likely to get help

Question ID : 441009951105
Option 1 ID : 4410093757809
Option 2 ID : 4410093757810
Option 3 ID : 4410093757812
Option 4 ID : 4410093757811
Chosen Option : 1

Q.5 Rearrange the jumbled segments to form a coherent statement.

(P) foster critical thinking
(Q) and encourage innovation
(R) interdisciplinary studies
(S) by combining multiple fields of knowledge

- Ans ☐ 1. PSRQ
☒ 2. RPQS
☐ 3. QPRS
☐ 4. PRSQ

Question ID : 4410091717570
Option 1 ID : 4410096774038
Option 2 ID : 4410096774040
Option 3 ID : 4410096774039
Option 4 ID : 4410096774037
Chosen Option : 4

Q.6 Select the most appropriate idiom to replace the highlighted part in the given sentence.

Despite facing severe financial setbacks, he **meticulously strategised every move** to ensure long-term stability.

- Ans ☒ 1. played his cards right
☐ 2. let the cat out of the bag
☐ 3. kicked the bucket
☐ 4. hit the nail on the head

Question ID : 4410096620
Option 1 ID : 44100926231
Option 2 ID : 44100926232
Option 3 ID : 44100926233
Option 4 ID : 44100926234
Chosen Option : 2

Q.7 Choose the word that best expresses the meaning of the underlined word in the sentence.

The teacher admonished the students for coming late to class.

- Ans ☐ 1. encouraged
☐ 2. praised
☐ 3. rewarded
☒ 4. scolded

Question ID : 4410091473029
Option 1 ID : 4410095819972
Option 2 ID : 4410095819969
Option 3 ID : 4410095819971
Option 4 ID : 4410095819970
Chosen Option : 4

Comprehension:

Read the passage carefully and answer the questions that follow.

Growing evidence shows that dancing can boost brain health and help manage symptoms of neurocognitive and movement disorders, including Parkinson's, multiple sclerosis (MS), Alzheimer's, dementia and brain injury. For example, a 2021 York University study showed that weekly dance training improved motor function and daily living for those with mild to moderate Parkinson's. This piggybacks on other findings that show how activities that target balance, coordination, flexibility, creativity and memory work can improve Parkinson's symptoms.

Jennifer started Dancing with Parkinson's in 2007 as a way to give back to her community. A few years later, her grandfather was diagnosed with the disease. Jennifer was able to dance with him in his long-term care home until his final days. "The compassion and care that I have for our dancers is that they're all my grandfather," she says. Recently, one of her students, a man in his 50s who had been adamant that dancing wasn't for him, said that he now has more dexterity in his hands and generally moves more freely. "I can't deny how this is changing my life," he told her.

SubQuestion No : 8

Q.8 Which of the following would be the most suitable title for the passage?

- Ans**
- ☒ 1. Brain Injury and Benefits of Dance Therapy
 - ☒ 2. Parkinson's Disease and its Causes
 - ☒ 3. How Dance Improves Brain and Body Health
 - ☒ 4. The Connection Between Dance and Music

Question ID : 441009113191
Option 1 ID : 441009450306
Option 2 ID : 441009450305
Option 3 ID : 441009450304
Option 4 ID : 441009450303
Chosen Option : 1

Comprehension:

Read the passage carefully and answer the questions that follow.

Growing evidence shows that dancing can boost brain health and help manage symptoms of neurocognitive and movement disorders, including Parkinson's, multiple sclerosis (MS), Alzheimer's, dementia and brain injury. For example, a 2021 York University study showed that weekly dance training improved motor function and daily living for those with mild to moderate Parkinson's. This piggybacks on other findings that show how activities that target balance, coordination, flexibility, creativity and memory work can improve Parkinson's symptoms.

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SubQuestion No : 9

Q.9 According to the passage, what benefits did a student in his 50s experience from dancing?

- Ans**
- ☒ 1. He improved dexterity in his hands and moved more freely
 - ☐ 2. His Parkinson's symptoms improved
 - ☐ 3. Weekly dancing improved his motor function
 - ☐ 4. It helped him develop compassion and care for his community

Question ID : 441009113192

Option 1 ID : 441009450308

Option 2 ID : 441009450309

Option 3 ID : 441009450307

Option 4 ID : 441009450310

Chosen Option : 3

Comprehension:

Read the passage carefully and answer the questions that follow.

Growing evidence shows that dancing can boost brain health and help manage symptoms of neurocognitive and movement disorders, including Parkinson's, multiple sclerosis (MS), Alzheimer's, dementia and brain injury. For example, a 2021 York University study showed that weekly dance training improved motor function and daily living for those with mild to moderate Parkinson's. This piggybacks on other findings that show how activities that target balance, coordination, flexibility, creativity and memory work can improve Parkinson's symptoms.

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SubQuestion No : 10

Q.10 Which word is the antonym of "adamant" as used in the passage?

Ans ☒ 1. Amenable

☐ 2. Persistent

☐ 3. Stubborn

☐ 4. Dazed

Question ID : 441009113193

Option 1 ID : 441009450314

Option 2 ID : 441009450312

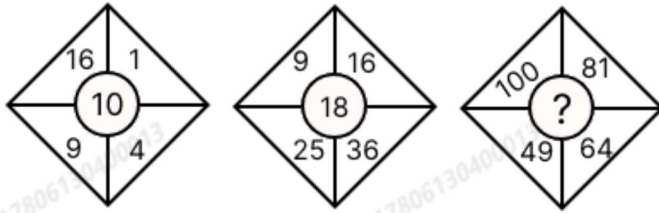
Option 3 ID : 441009450311

Option 4 ID : 441009450313

Chosen Option : 1

Section : Reasoning

Q.1 Study the given pattern carefully and select the number that can replace the question mark (?) in it.



- Ans
- ☒ 1. 26
 - ☒ 2. 30
 - ☒ 3. 45
 - ☒ 4. 34

Question ID : 4410091807632
 Option 1 ID : 4410097126868
 Option 2 ID : 4410097126867
 Option 3 ID : 4410097126866
 Option 4 ID : 4410097126869
 Chosen Option : 1

Q.2 John starts from Point A and drives 12 km towards the west. He then takes a left turn, drives 11 km, turns left and drives 15 km. He then takes a left turn and drives 17 km. He takes a final left turn, drives 3 km and stops at Point P. How far (shortest distance) and towards which direction should he drive in order to reach Point A again? (All turns are 90 degrees turns only, unless specified.)

- Ans
- ☒ 1. 5 km to the south
 - ☒ 2. 6 km to the north
 - ☒ 3. 5 km to the north
 - ☒ 4. 6 km to the south

Question ID : 44100944247
 Option 1 ID : 441009176437
 Option 2 ID : 441009176436
 Option 3 ID : 441009176438
 Option 4 ID : 441009176435
 Chosen Option : 1

Q.3 FJGH is related to JNKL in a certain way based on the English alphabetical order. In the same way, PTQR is related to TXUV. To which of the following is VZWX related, following the same logic?

- Ans
- ☐ 1. ZDZB
 - ☐ 2. ZCZB
 - ☐ 3. ZEZF
 - ☒ 4. ZDAB

Question ID : 44100943900
Option 1 ID : 441009175050
Option 2 ID : 441009175049
Option 3 ID : 441009175048
Option 4 ID : 441009175047
Chosen Option : 1

Q.4 T is the brother of U. V is the sister of W. Z is the son of W. W is the wife of U. How is T related to V?

- Ans
- ☐ 1. Brother's wife's brother
 - ☐ 2. Husband's brother
 - ☐ 3. Husband's father
 - ☒ 4. Sister's husband's brother

Question ID : 4410091532724
Option 1 ID : 4410096053968
Option 2 ID : 4410096053966
Option 3 ID : 4410096053967
Option 4 ID : 4410096053969
Chosen Option : 2

Q.5 Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter cluster.)

- Ans
- ☐ 1. EHK
 - ☒ 2. JNQ
 - ☐ 3. ORU
 - ☐ 4. TWZ

Question ID : 441009778254
Option 1 ID : 4410093067022
Option 2 ID : 4410093067021
Option 3 ID : 4410093067019
Option 4 ID : 4410093067020
Chosen Option : 4

Q.6 What should come in place of '?' in the given series?
635 561 487 413 ? 265

- Ans
- ☒ 1. 325
 - ☐ 2. 351
 - ☐ 3. 343
 - ☒ 4. 339

Question ID : 4410091352454
Option 1 ID : 4410095342006
Option 2 ID : 4410095342007
Option 3 ID : 4410095342004
Option 4 ID : 4410095342005
Chosen Option : 1

Q.7 Select the letter-cluster pair that DOES NOT follow the same order as the one followed by the two pairs given below. Both pairs follow the same order.

(HCIAN, CIHNA)
(OBXRE, BXOER)

- Ans
- ☒ 1. (EVOMN, VOMEN)
 - ☐ 2. (RTUKC, TURCK)
 - ☐ 3. (WSIGN, SIWNG)
 - ☐ 4. (ELONM, LOEMN)

Question ID : 441009792955
Option 1 ID : 4410093125822
Option 2 ID : 4410093125819
Option 3 ID : 4410093125820
Option 4 ID : 4410093125821
Chosen Option : 2

Q.8 Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?
FEB YXU RQN KJG ?

- Ans
- ☒ 1. DCZ
 - ☐ 2. DEG
 - ☐ 3. DDY
 - ☐ 4. DBY

Question ID : 441009759884
Option 1 ID : 4410092993529
Option 2 ID : 4410092993532
Option 3 ID : 4410092993530
Option 4 ID : 4410092993531
Chosen Option : 1

Q.9 Refer to the following series and answer the question. All numbers are single-digit numbers only. Counting to be done from left to right only.
(Left) 9 9 2 7 5 7 6 8 8 1 6 4 2 8 2 7 3 6 6 7 7 7 4 8 2 7 1 (Right)
How many such odd numbers are there, each of which is immediately preceded by an even number and also immediately followed by an even number?

- Ans
- ☐ 1. 0
 - ☐ 2. 2
 - ☐ 3. 3
 - ☒ 4. 1

Question ID : 441009793554
Option 1 ID : 4410093128217
Option 2 ID : 4410093128216
Option 3 ID : 4410093128218
Option 4 ID : 4410093128215
Chosen Option : 1

Q.10 A question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.

Question: Five relatives – Ramesh, Suresh, Mahesh, Dinesh, and Naresh – are of different ages.
Who is the **second oldest**?

Statements:

- (I) Mahesh is older than Ramesh and Suresh but younger than Dinesh.
(II) Naresh is younger than Dinesh but older than Mahesh.

- Ans
- ☒ 1. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question
 - ☐ 2. Both statements I and II together are NOT sufficient to answer the question
 - ☐ 3. Data in Statement II alone is sufficient to answer the question while data in Statement I is not
 - ☐ 4. Data in Statement I alone is sufficient to answer the question while data in Statement II is not

Question ID : 4410091664310
Option 1 ID : 4410096570427
Option 2 ID : 4410096570430
Option 3 ID : 4410096570429
Option 4 ID : 4410096570428
Chosen Option : 1

Q.11 What should come in place of the question mark (?) in the given series based on the English alphabetical order?

MIX GCR AWL UQF ?

- Ans
- ☐ 1. OKU
 - ☐ 2. OKI
 - ☐ 3. OKP
 - ☒ 4. OKZ

Question ID : 441009297484

Option 1 ID : 4410091157013

Option 2 ID : 4410091157011

Option 3 ID : 4410091157014

Option 4 ID : 4410091157012

Chosen Option : 1

Q.12 Refer to the following series and answer the question. All numbers are single-digit numbers only. Counting to be done from left to right only.
(Left) 4 8 3 4 5 9 7 6 9 8 1 6 1 4 7 9 1 9 9 1 6 6 7 (Right)
How many such odd digits are there, each of which is immediately preceded by an even digit and also immediately followed by an odd digit?

- Ans
- ☐ 1. Three
 - ☒ 2. Two
 - ☐ 3. One
 - ☐ 4. None

Question ID : 441009777739

Option 1 ID : 4410093064962

Option 2 ID : 4410093064961

Option 3 ID : 4410093064960

Option 4 ID : 4410093064959

Chosen Option : 2

Q.13 Seven people, L, M, N, D, E, F and G, are sitting in a straight line, facing the north. D sits third to the right of E. F sits second to the right of N. No one sits to the left of M. Only three people sit between N and M. E sits to the immediate left of L. E is not an immediate neighbour of M. G is not an immediate neighbour of N. Who sits fourth to the left of D?

- Ans
- ☒ 1. G
 - ☐ 2. E
 - ☐ 3. M
 - ☐ 4. N

Question ID : 441009881466

Option 1 ID : 4410093479517

Option 2 ID : 4410093479519

Option 3 ID : 4410093479518

Option 4 ID : 4410093479520

Chosen Option : 1

Q.14 Seven boxes, Q, R, S, V, W, X and Y, are kept one over the other, but not necessarily in the same order. Q is kept third from bottom. Only three boxes are kept between V and Q. Only one box is kept between Y and X. X is kept immediately above Q. Only four boxes are kept between Y and R. W is kept at some place above S. How many boxes are kept between W and S?

- Ans
- ☒ 1. Four
 - ☐ 2. Three
 - ☐ 3. One
 - ☒ 4. Two

Question ID : 441009788791

Option 1 ID : 4410093109163

Option 2 ID : 4410093109164

Option 3 ID : 4410093109166

Option 4 ID : 4410093109165

Chosen Option : 1

Q.15 N is the _____ of P. M is the father of N. N is the mother of O. O is the brother of P.

- Ans
- ☒ 1. Mother
 - ☐ 2. Brother
 - ☐ 3. Sister
 - ☐ 4. Father

Question ID : 4410091645021

Option 1 ID : 4410096496616

Option 2 ID : 4410096496615

Option 3 ID : 4410096496617

Option 4 ID : 4410096496614

Chosen Option : 3

Section : Quantitative Aptitude

Q.1 If $\sin\theta = \frac{15}{17}$, θ is an acute angle,
then find the value of $\sqrt{\frac{\sec^2\theta - 1}{\operatorname{cosec}^2\theta - \cot^2\theta}}$.

Ans

- ☒ 1. $\frac{8}{17}$
☒ 2. $\frac{15}{298}$
☒ 3. $\frac{15}{8}$
☒ 4. $\frac{15}{17}$

Question ID : 441009592739

Option 1 ID : 4410092326075

Option 2 ID : 4410092326076

Option 3 ID : 4410092326073

Option 4 ID : 4410092326074

Chosen Option : 1

Q.2 Lalit's average earning per month in the first three months of a year was ₹46,144. In April, his earning was 25% more than the average earning in the first three months. If his average earning per month for the whole year is ₹66,012, then what will be Lalit's average earning (in ₹) per month from May to December?

Ans

- ☒ 1. 74,501
☒ 2. 74,508
☒ 3. 74,504
☒ 4. 74,507

Question ID : 441009582786

Option 1 ID : 4410092286271

Option 2 ID : 4410092286272

Option 3 ID : 4410092286270

Option 4 ID : 4410092286273

Chosen Option : 2

Q.3 A factory produces cylindrical rods with a radius of 2 cm and height of 25 cm. If 210 rods are made, what is the total volume of molten material required (in litres)? (Use $\pi = 22/7$)

Ans ☒ 1. 66 L

☒ 2. 60 L

☒ 3. 56 L

☒ 4. 72 L

Question ID : 4410091879597

Option 1 ID : 4410097405383

Option 2 ID : 4410097405382

Option 3 ID : 4410097405381

Option 4 ID : 4410097405384

Chosen Option : 1

Q.4 The fourth proportional to $(a^2 - ab + b^2)$, $(a^3 + b^3)$, and $(a - b)$ is

Ans ☒ 1. $a^2 - b^2$

☒ 2. $a^2 + b^2$

☒ 3. ab

☒ 4. $a + b$

Question ID : 4410091949920

Option 1 ID : 4410097681049

Option 2 ID : 4410097681048

Option 3 ID : 4410097681051

Option 4 ID : 4410097681050

Chosen Option : 1

Q.5 The population of a town in 1900 was 3,75,500. If its population increased in two successive decades by 30% in each decade, the population of the town in 1920 was:

Ans ☒ 1. 6,34,593

☒ 2. 6,34,600

☒ 3. 6,34,595

☒ 4. 6,34,598

Question ID : 441009859275

Option 1 ID : 4410093390075

Option 2 ID : 4410093390073

Option 3 ID : 4410093390072

Option 4 ID : 4410093390074

Chosen Option : 4

Q.6 The single discount equivalent to the discount series of 18%, 15%, and 10% is

- Ans ☒ 1. 14.33%
☒ 2. 43.33%
☒ 3. 37.27%
☒ 4. 49.27%

Question ID : 441009305122
 Option 1 ID : 4410091187158
 Option 2 ID : 4410091187159
 Option 3 ID : 4410091187160
 Option 4 ID : 4410091187161
 Chosen Option : 1

Q.7 There are 30 cards numbered from 1 to 30. One card is drawn at random. Find the probability that the number on the card is a two-digit number.

- Ans ☒ 1. 0.7
☒ 2. 0.9
☒ 3. 0.6
☒ 4. 0.3

Question ID : 4410091948723
 Option 1 ID : 4410097676302
 Option 2 ID : 4410097676304
 Option 3 ID : 4410097676303
 Option 4 ID : 4410097676305
 Chosen Option : 1

Q.8 Simplify:

$$2\left(\frac{3}{2}x^2 - 20x + 13\right) - 3(x^2 + 8x - 13)$$

- Ans ☒ 1. $64x + 65$
☒ 2. $-64x + 65$
☒ 3. $64x - 65$
☒ 4. $-64x - 65$

Question ID : 4410091226900
 Option 1 ID : 4410094841086
 Option 2 ID : 4410094841083
 Option 3 ID : 4410094841084
 Option 4 ID : 4410094841085
 Chosen Option : 1

Q.9 The sum of three exterior angles of a triangle is:

- Ans
- ☐ 1. 270°
 - ☐ 2. 180°
 - ☐ 3. 450°
 - ☒ 4. 360°

Question ID : 441009592487
Option 1 ID : 4410092325066
Option 2 ID : 4410092325065
Option 3 ID : 4410092325068
Option 4 ID : 4410092325067
Chosen Option : 1

Q.10 P and Q together can fill a cistern with water in 3 hours. If P alone can fill the cistern with water in 6 hours, then in how many hours will Q alone fill half of the cistern with water?

- Ans
- ☐ 1. 7
 - ☐ 2. 6
 - ☐ 3. 4
 - ☒ 4. 3

Question ID : 441009517490
Option 1 ID : 4410092025382
Option 2 ID : 4410092025380
Option 3 ID : 4410092025381
Option 4 ID : 4410092025379
Chosen Option : 2

Q.11 During a sale, 50% of the goods are sold at 47% profit, 30% of the remaining goods are sold at 32% profit and the still remaining goods are sold at a loss of 28%. If there is an overall profit of x%, then what is the value of x?

- Ans
- ☐ 1. 19
 - ☐ 2. 20
 - ☒ 3. 18.5
 - ☐ 4. 17.5

Question ID : 441009547542
Option 1 ID : 4410092145565
Option 2 ID : 4410092145566
Option 3 ID : 4410092145564
Option 4 ID : 4410092145567
Chosen Option : 1

Q.12 Convert $9.\overline{36}$ into a vulgar fraction.

Ans

- ☒ 1. $\frac{843}{30}$
☒ 2. $\frac{943}{30}$
☒ 3. $\frac{281}{30}$
☒ 4. $\frac{254}{30}$

Question ID : 4410091400333

Option 1 ID : 4410095562630

Option 2 ID : 4410095562629

Option 3 ID : 4410095562631

Option 4 ID : 4410095562632

Chosen Option : 4

Q.13 A person invests a total sum of money in two different compound-interest schemes, dividing the amount in the ratio 6 : 5 between Scheme A and Scheme B. Scheme A offers 20% compound interest per annum, compounded annually, while Scheme B offers 10% compound interest per annum, compounded half-yearly. After one year, the combined amount from both schemes becomes ₹50,850. The total amount (in ₹) originally invested is

Ans

- ☒ 1. 44748
☒ 2. 44874
☒ 3. 44000
☒ 4. 44847

Question ID : 4410091507566

Option 1 ID : 4410095954866

Option 2 ID : 4410095954867

Option 3 ID : 4410095954865

Option 4 ID : 4410095954868

Chosen Option : 3

Q.14 Arun invests a sum of ₹6,200 and Mahesh invests a sum of ₹9,400 at the same rate of simple interest per annum. If, at the end of 3 years, Mahesh gets ₹720 more interest than Arun, then find the rate of interest per annum (in percentage).

Ans ☒ 1. 9.5%

☒ 2. 7.5%

☒ 3. 6.5%

☒ 4. 5.5%

Question ID : 441009570443

Option 1 ID : 4410092236894

Option 2 ID : 4410092236892

Option 3 ID : 4410092236895

Option 4 ID : 4410092236893

Chosen Option : 1

Q.15 A and B started moving at the same time towards each other from points X and Y, respectively. After meeting on the way, A and B took 34.2 hours and p hours, respectively, to reach Y and X, respectively. If the speed of B is 50% more than that of A, then what is the value of p?

Ans ☒ 1. 13.2

☒ 2. 14.3

☒ 3. 16.5

☒ 4. 15.2

Question ID : 441009544501

Option 1 ID : 4410092133402

Option 2 ID : 4410092133401

Option 3 ID : 4410092133403

Option 4 ID : 4410092133400

Chosen Option : 2

Section : General Knowledge

Q.1 In which year was Mahatma Gandhi arrested by the British Government and imprisoned in Yeravada Jail, Pune, for violating the salt law during the Dandi March?

Ans ☒ 1. 1929

☒ 2. 1930

☒ 3. 1931

☒ 4. 1928

Question ID : 4410091534740

Option 1 ID : 4410096062204

Option 2 ID : 4410096062205

Option 3 ID : 4410096062206

Option 4 ID : 4410096062203

Chosen Option : 2

Q.2 What is the term for selling a portion of the government's ownership in Public Sector Enterprises (PSEs) to the public or private investors?

- Ans
- ☒ 1. Liberalisation
 - ☒ 2. Disinvestment
 - ☒ 3. Industrial deregulation
 - ☒ 4. Globalisation

Question ID : 4410091564936
Option 1 ID : 4410096181303
Option 2 ID : 4410096181305
Option 3 ID : 4410096181306
Option 4 ID : 4410096181304
Chosen Option : 1

Q.3 Which of the following countries is participating with India in the joint military exercise 'Bold Kurukshetra 2025'?

- Ans
- ☒ 1. United States
 - ☒ 2. Japan
 - ☒ 3. France
 - ☒ 4. Singapore

Question ID : 4410091473092
Option 1 ID : 4410095820225
Option 2 ID : 4410095820228
Option 3 ID : 4410095820226
Option 4 ID : 4410095820227
Chosen Option : 3

Q.4 A positively charged alpha particle is projected towards the west and gets deflected towards the north due to a magnetic field. What is the direction of the magnetic field?

- Ans
- ☒ 1. Towards the east
 - ☒ 2. Towards the south
 - ☒ 3. Downward
 - ☒ 4. Upward

Question ID : 4410091570795
Option 1 ID : 4410096204160
Option 2 ID : 4410096204161
Option 3 ID : 4410096204159
Option 4 ID : 4410096204158
Chosen Option : 3

Q.5 The Basic Structure Doctrine of the Indian Constitution was propounded by the Supreme Court in which case?

- Ans
- ☐ 1. Minerva Mills Case
 - ☐ 2. Golaknath Case
 - ☐ 3. Berubari Case
 - ☒ 4. Kesavananda Bharati Case

Question ID : 4410091515278
Option 1 ID : 4410095984514
Option 2 ID : 4410095984513
Option 3 ID : 4410095984516
Option 4 ID : 4410095984515
Chosen Option : 1

Q.6 At which event was Shantanu Naidu honoured with the “Social Impact Leader of the Year 2025”?

- Ans
- ☐ 1. Confederation of Indian Industry Awards 2025
 - ☐ 2. Nasscom Tech Summit 2025
 - ☐ 3. Global Entrepreneurship Summit 2025
 - ☒ 4. Viksit Bharat 2047 – Google Education Summit 2025

Question ID : 4410091556927
Option 1 ID : 4410096150276
Option 2 ID : 4410096150274
Option 3 ID : 4410096150277
Option 4 ID : 4410096150275
Chosen Option : 1

Q.7 Which raga is most widely attributed to the contributions of Amir Khusrau and is known for its serene and uplifting nature?

- Ans
- ☐ 1. Raga Todi
 - ☐ 2. Raga Darbari
 - ☐ 3. Raga Bhairavi
 - ☒ 4. Raga Yaman

Question ID : 441009318399
Option 1 ID : 4410091239895
Option 2 ID : 4410091239896
Option 3 ID : 4410091239893
Option 4 ID : 4410091239894
Chosen Option : 3

Q.8 According to the Global Forest Resources Assessment (GFRA) 2025, what is India's global rank in total forest area?

- Ans**
- ☒ 1. 12th position
 - ☒ 2. 5th position
 - ☒ 3. 9th position
 - ☒ 4. 15th position

Question ID : 4410091517478
Option 1 ID : 4410095993283
Option 2 ID : 4410095993282
Option 3 ID : 4410095993281
Option 4 ID : 4410095993284
Chosen Option : 4

Q.9 Which of the following plains is a subdivision of the Western Coastal Plains of India?

- Ans**
- ☒ 1. Andhra Plain
 - ☒ 2. Konkan Plain
 - ☒ 3. Tamil Nadu Plain
 - ☒ 4. Utkal Plain

Question ID : 4410091730196
Option 1 ID : 4410096823173
Option 2 ID : 4410096823175
Option 3 ID : 4410096823174
Option 4 ID : 4410096823172
Chosen Option : 4

Q.10 Which freedom fighter was inspired by the ideals of Swami Vivekananda?

- Ans**
- ☒ 1. Jatindra Nath Das
 - ☒ 2. Ashfaqulla Khan
 - ☒ 3. Bagha Jatin
 - ☒ 4. Surya Sen

Question ID : 4410091893808
Option 1 ID : 4410097460996
Option 2 ID : 4410097460995
Option 3 ID : 4410097460994
Option 4 ID : 4410097460993
Chosen Option : 1