Telangana State Council Higher Education

Notations :

1.Options shown in green color and with ✔ icon are correct.

2.Options shown in red color and with ✖ icon are incorrect.

Question Paper Name :	Geo Engineering and Geo Informatics 10th June 2024 Shift 1
Subject Name :	Geo Engineering and Geo Informatics
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Geo Engineering and Geo Informatics

Group Number :	1
Group Id :	38382329
Group Maximum Duration :	0
Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	120

Mathematics

Section Id :	38382390
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory

Number of Questions : 10

Number of Questions to be attempted : 10

Section Marks : 10

Maximum Instruction Time : 0

Sub-Section Number : 1

Sub-Section Id : 38382390

Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 3838234321 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Let $A = \begin{bmatrix} 1 & -5 & 2 \\ 7 & 0 & 6 \\ 5 & -3 & 7 \end{bmatrix}$ and $B = \begin{bmatrix} 1 & 6 & 7 \\ 3 & 8 & 4 \\ 7 & 6 & 1 \end{bmatrix}$. If C and D are two 3×3 matrices such that

$A + C$ is symmetric, $A - C$ is skew-symmetric and B is transpose of D, then $\left(C - D^T \right)^T =$

Options :

1. ✖ $\begin{bmatrix} 0 & -11 & -5 \\ 4 & -8 & 2 \\ -2 & -9 & 8 \end{bmatrix}$

2. ✖ $\begin{bmatrix} 0 & -22 & -11 \\ 49 & 78 & 55 \\ 45 & 48 & 30 \end{bmatrix}$

3. ✖ $\begin{bmatrix} 2 & 13 & 12 \\ -2 & 8 & 1 \\ 9 & 12 & 8 \end{bmatrix}$

4. ✔ $\begin{bmatrix} 0 & -8 & -5 \\ 1 & -8 & 0 \\ -2 & -7 & 6 \end{bmatrix}$

Question Number : 2 Question Id : 3838234322 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If $\overline{X}_1$ and $\overline{X}_2$ are any two eigen vectors corresponding to eigen values λ_1 and λ_2 respectively, then

Options :

1. ✖ $\exists$ a constant K such that $\overline{X}_1 = K\overline{X}_2$, whenever $\lambda_1 \neq \lambda_2$

2. ✔ $\exists$ no constant K such that $\overline{X}_1 = K\overline{X}_2$, whenever $\lambda_1 \neq \lambda_2$

3. ✖ $\exists$ no constant K such that $\overline{X}_1 = K\overline{X}_2$, whenever $\lambda_1 = \lambda_2$

4. ✖ $\overline{X}_1 = \overline{X}_2$ whenever $\lambda_1 = \lambda_2$

Question Number : 3 Question Id : 3838234323 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The equations $a_1 x + b_1 y + c_1 z = d_1$, $a_2 x + b_2 y + c_2 z = d_2$ and $a_3 x + b_3 y + c_3 z = d_3$

$(d_1 d_2 d_3 \neq 0)$ represents three planes and $\dfrac{a_i}{a_j} \neq \dfrac{b_i}{b_j} \neq \dfrac{c_i}{c_j}$ $(i, j = 1, 2, 3 \ \& \ i \neq j)$.

Let $A = \begin{bmatrix} a_1 & b_1 & c_1 \\ a_2 & b_2 & c_2 \\ a_3 & b_3 & c_3 \end{bmatrix}$, $B = \begin{bmatrix} d_1 \\ d_2 \\ d_3 \end{bmatrix}$. If rank of A = rank of $[A:B] = 2$, then the planes are such that

Options :

1. ✖ line of intersection of any two is parallel to the third plane

2. ✖ line of intersection of any two planes cuts the third plane

3. ✔ line of intersection of any two planes lies on the third plane

4. ✖ the three planes are adjacent faces of a box

Question Number : 4 Question Id : 3838234324 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If $|Z| > 2$ and the coefficients of Z^{12} and $\dfrac{1}{Z^{12}}$ in the Laurent's series expansion of

$\dfrac{1}{(1-Z)(2-Z)}$ are A and B respectively, then $2024 - A =$

Options :

1. ✖ $B + 23$

2. ✔ $B - 23$

3. ✖ $B - 1$

4. ✖ $B + 1$

Question Number : 5 Question Id : 3838234325 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Given $\displaystyle\oint_C \dfrac{f(z)}{z-a}\,dz = 0$, where $C : |z| = K$. Consider the following conclusions

I. $K < |a|$ and $f(z)$ is analytic inside and on C.

II. $f(z) = (z-a)^n g(z) \ (n \in N)$ and $g(z)$ is analytic inside and on C.

Which of the following is true

Options :

1. ✖ I alone is true

2. ✔ II alone is true

3. ✖ Both I and II are true

4. ✖ Neither I nor II is true

Question Number : 6 Question Id : 3838234326 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Three students A, B and C write an entrance exam. The chance that at least one of them pass that exam is $\frac{3}{4}$. If probability that A, C pass that exam are respectively $\frac{1}{2}, \frac{1}{4}$ then the probability that B do not pass that exam is

Options :

1. ✗ $\frac{1}{3}$

2. ✔ $\frac{2}{3}$

3. ✗ $\frac{1}{4}$

4. ✗ $\frac{3}{4}$

Question Number : 7 Question Id : 3838234327 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If the mean of a random variable which follows exponential distribution is $\frac{1}{3}$, then the probability that the random variable X takes the values more than r is greater than $\frac{1}{e^5}$, then

Options :

1. ✗ $r > \frac{5}{3}$

2. ✔ $r < \frac{5}{3}$

3. ✗ $r > \frac{1}{6}$

4. ✗ $r < \frac{1}{6}$

Question Number : 8 Question Id : 3838234328 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

$\overline{F}$ is an irrotational vector function. If C is the closed curve which is boundary of an open surface S, then $\oint\limits_{C} \overline{F} \cdot d\overline{R} =$

Options :

1. ✖ $\iint\limits_{E} \left(\dfrac{\partial^2 \phi}{\partial x^2} - \dfrac{\partial^2 \phi}{\partial y^2} \right) dxdy$, ϕ is a scalar function and E is region of C

2. ✖ $\int\limits_{S} \text{div}\, \overline{F}\, dv$

3. ✔ $\int\limits_{C} (grad\phi).d\overline{R} = 0$ for some scalar function ϕ

4. ✖ divergence of $\overline{F}$

Question Number : 9 Question Id : 3838234329 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If $x + y + z = 45$ and maximum value of $x^4 y^6 z^5$ exists at $x = \alpha$, $y = \beta$ and $z = \gamma$, then $\dfrac{\alpha + \beta}{\gamma} =$

Options :

1. ✔ 2

2. ✖ 1

3. ✖ 3

4. ✖ 4

Question Number : 10 Question Id : 3838234330 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If it is known that $\int_0^\infty \frac{e^{ix}}{x}dx = \frac{\pi i}{2}$, then $\int_0^\infty \frac{\sin 5x}{x}dx =$

Options :

1. ✖ $\frac{\pi}{10}$

2. ✖ $\frac{5\pi}{2}$

3. ✔ $\frac{\pi}{2}$

4. ✖ $\frac{\pi}{2}+5$

Geo Engineering and Geo Informatics

Section Id :	38382391
Section Number :	2
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	110
Number of Questions to be attempted :	110
Section Marks :	110
Maximum Instruction Time :	0
Sub-Section Number :	1
Sub-Section Id :	38382391
Question Shuffling Allowed :	Yes

Question Number : 11 Question Id : 3838234331 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

In which of the following stages of a river, the meanders are formed commonly?

Options :

1. ✖ youthful age

2. ✔ mature age

3. ✖ old age

4. ✖ both mature and youthful age

Question Number : 12 Question Id : 3838234332 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

An elongated sandy deposit that extends out into open water in the direction of a longshore current is called

Options :

1. ✖ fore reef

2. ✖ tombolo

3. ✔ spit

4. ✖ rip-rap

Question Number : 13 Question Id : 3838234333 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Size of the landform on the surface of the earth is

Options :

1. ✖ smallest part

2. ✔ small to medium part

3. ✖ medium part

4. ✖ medium to largest part

Question Number : 14 Question Id : 3838234334 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The point bars which form in the concave side of meanders of large rivers consists of

Options :

1. ✖ pure clayey deposits

2. ✖ pure sandy deposits

3. ✖ coarse sized deposits

4. ✔ mixed size of sediments

Question Number : 15 Question Id : 3838234335 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following is not the basic aspects of applied geomorphology?

Options :

1. ✖ mapping of landforms

2. ✖ interpretation of aerial photographs and images

3. ✔ assessing the causes of sustainable changes

4. ✖ monitoring the environmental changes

Question Number : 16 Question Id : 3838234336 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

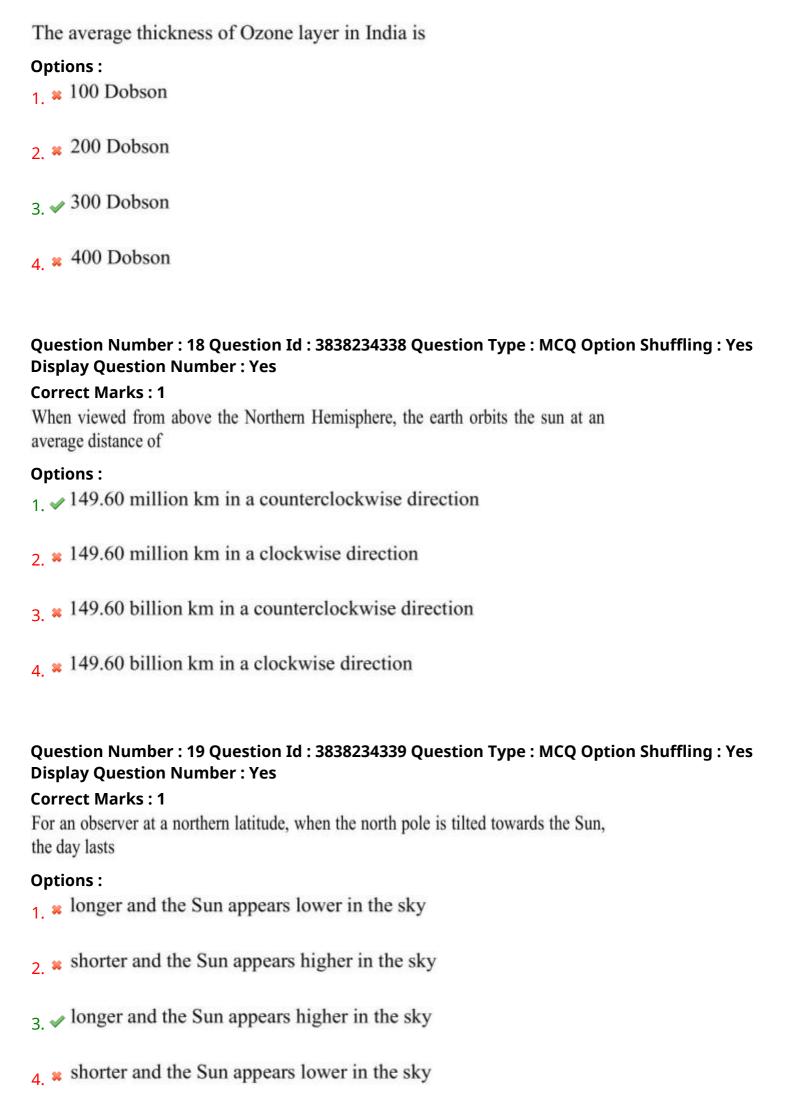**Correct Marks : 1**

Approximate mass of the earth is

Options :

1. ✔ 5.97×10^{24} kg

2. ✖ 5.97×10^{24} tonnes

3. ✖ 5.97×10^{24} N

4. ✖ 5.97×10^{24} kN

Question Number : 17 Question Id : 3838234337 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The average thickness of Ozone layer in India is

Options :

1. ✖ 100 Dobson

2. ✖ 200 Dobson

3. ✔ 300 Dobson

4. ✖ 400 Dobson

Question Number : 18 Question Id : 3838234338 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

When viewed from above the Northern Hemisphere, the earth orbits the sun at an average distance of

Options :

1. ✔ 149.60 million km in a counterclockwise direction

2. ✖ 149.60 million km in a clockwise direction

3. ✖ 149.60 billion km in a counterclockwise direction

4. ✖ 149.60 billion km in a clockwise direction

Question Number : 19 Question Id : 3838234339 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

For an observer at a northern latitude, when the north pole is tilted towards the Sun, the day lasts

Options :

1. ✖ longer and the Sun appears lower in the sky

2. ✖ shorter and the Sun appears higher in the sky

3. ✔ longer and the Sun appears higher in the sky

4. ✖ shorter and the Sun appears lower in the sky

Question Number : 20 Question Id : 3838234340 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The average depth of the Indian Oceans basin is

Options :

1. ✗ 1.7 km

2. ✗ 2.7 km

3. ✗ 3.7 km

4. ✓ 4.7 km

Question Number : 21 Question Id : 3838234341 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Indian Ocean basin surface water salinity varies between

Options :

1. ✓ 32 and 37 parts per thousand

2. ✗ 22 and 27 parts per thousand

3. ✗ 12 and 17 parts per thousand

4. ✗ 2 and 7 parts per thousand

Question Number : 22 Question Id : 3838234342 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

A mountain with pointed summits which rises from the sea floor that does not reach the surface of the ocean is called as

Options :

1. ✗ submarine canyons

2. ✓ seamount

3. ✖ atoll

4. ✖ guyots

Question Number : 23 Question Id : 3838234343 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following is the cleavage of Galena mineral?

Options :

1. ✖ octahedral

2. ✔ cubic

3. ✖ irregular fracture surface

4. ✖ regular fracture surface

Question Number : 24 Question Id : 3838234344 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The luster and crystal system of a Topaz mineral respectively are

Options :

1. ✖ metallic and triclinic

2. ✖ greasy and tetragonal

3. ✖ dull and monocline

4. ✔ vitreous and orthorhombic

Question Number : 25 Question Id : 3838234345 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The diaphaneity of Gypsum mineral is

Options :

1. ✖ opaque

2. ✔ transparent to translucent

3. ✖ Opaque to translucent

4. ✖ translucent

Question Number : 26 Question Id : 3838234346 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If Q = depth of runoff in inches, P = depth of rainfall in inches, I_a = initial abstraction in inches and S = maximum potential retention in inches, then which of the following is the correct equation for the curve number runoff?

Options :

1. ✔ $Q = (P - I_a)^2 / ((P - I_a) + S)$

2. ✖ $Q = (P + I_a)^2 / ((P - I_a) - S)$

3. ✖ $Q = (P - I_a)^2 / ((P + I_a) + S)$

4. ✖ $Q = (P - I_a)^2 / ((P - I_a) - S)$

Question Number : 27 Question Id : 3838234347 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

For any time step, when the effective precipitation (P_E) exceeds infiltration (I), the total rainfall excess (TRE) can be computed as

Options :

1. ✔ $TRE = (P_E - I)$

2. ✖ $TRE = (P_E + I)$

3. ✖ $TRE = (P_E - I)^2$

4. ✗ $TRE = (P_E + I)^2$

Question Number : 28 Question Id : 3838234348 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The boundary between the unsaturated and saturated water zones in the underground is called

Options :

1. ✗ vadose zone

2. ✓ ground water table

3. ✗ phreatic line

4. ✗ capillary zone

Question Number : 29 Question Id : 3838234349 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following doesn't come under scope of environment?

Options :

1. ✗ nature and natural resources

2. ✗ biological diversity

3. ✗ pollution

4. ✓ stabilization of soil

Question Number : 30 Question Id : 3838234350 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The component of environment which deals with soil and rock is known as

Options :

1. ✓ Lithosphere

2. ✖ Biosphere

3. ✖ Atmosphere

4. ✖ Hydrosphere

Question Number : 31 Question Id : 3838234351 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following exactly belongs to the abiotic component of the environment?

Options :

1. ✖ animals and water

2. ✖ plants and soil

3. ✔ water and soil

4. ✖ microorganisms and water

Question Number : 32 Question Id : 3838234352 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Out of the available fresh water on the earth, the approximate percentage of ground water is about

Options :

1. ✖ 3.0

2. ✔ 30

3. ✖ 7.0

4. ✖ 70

Question Number : 33 Question Id : 3838234353 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following soils have high permeability

Options :

1. ✗ clay

2. ✗ silt

3. ✓ loose sand

4. ✗ dense sand

Question Number : 34 Question Id : 3838234354 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

A soil has void ratio 0.50, then its porosity is

Options :

1. ✗ 3

2. ✓ 1/3

3. ✗ 2

4. ✗ 1/2

Question Number : 35 Question Id : 3838234355 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The size of coarse sand ranges between

Options :

1. ✗ 20 mm and 80 mm

2. ✗ 4.75 mm and 20 mm

3. ✓ 2.0 mm and 4.75 mm

4. ✗ 0.425 mm to 2.0 mm

Question Number : 36 Question Id : 3838234356 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The structure formed after the formation of host rock is called

Options :

1. ✖ geologic structure

2. ✖ tectonic structure

3. ✖ primary structure

4. ✔ secondary structure

Question Number : 37 Question Id : 3838234357 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

In an angular unconformity, the younger strata are oriented as

Options :

1. ✖ dipping 45°

2. ✖ dipping 60°

3. ✖ inclined

4. ✔ horizontal

Question Number : 38 Question Id : 3838234358 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

When denser sand sinks into less dense wet mud, the bulges which are formed in the bottom of a sandstone bed are called as

Options :

1. ✖ slump structures

2. ✖ mud cracks

3. ✔ load structures

4. ✘ convolute lamination

Question Number : 39 Question Id : 3838234359 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The line of maximum curvature on a folded surface is known as

Options :

1. ✔ hinge line

2. ✘ plunge line

3. ✘ angle line

4. ✘ fold line

Question Number : 40 Question Id : 3838234360 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Thrusts are characterized by

Options :

1. ✘ transporting younger rocks on top of older ones over a long distance

2. ✘ transporting older rocks on top of younger ones over a short distance

3. ✘ transporting younger rocks on top of older ones over a short distance

4. ✔ transporting older rocks on top of younger ones over a long distance

Question Number : 41 Question Id : 3838234361 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

In which type of rock generally, the rock cleavage can be noticed?

Options :

1. ✔ fine grained rock

2. ✖ coarse grained rock

3. ✖ both fine and coarse-grained rocks

4. ✖ acidic rocks

Question Number : 42 Question Id : 3838234362 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The lineations which are formed due to shearing of rocks during asymmetric deformation of a rock mass are known as

Options :

1. ✖ intersection lineations

2. ✖ crenulation lineations

3. ✖ mineral lineations

4. ✔ stretching lineations

Question Number : 43 Question Id : 3838234363 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which portion of the spherical projection, a mineralogist will use for crystallographic analysis?

Options :

1. ✖ bottom half

2. ✔ top half

3. ✖ both top and bottom individually

4. ✖ whole spherical projection at a time

Question Number : 44 Question Id : 3838234364 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1

Tectonites which allows the rock to split into plate-like sheets are called

Options :

1. ✖ L-tectonites

2. ✔ S-tectonics

3. ✖ LS – tectonites

4. ✖ SL - tectonites

Question Number : 45 Question Id : 3838234365 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1

Which of the following is not correct statements?

Options :

1. ✖ shear zones provide information about deformation

2. ✖ shear zones help us to determine amount of strain

3. ✔ shear zones help us to determine the cleavage

4. ✖ shear zones help us to determine amount of displacement

Question Number : 46 Question Id : 3838234366 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1

In which of the following shear zones, the physical break cannot be noticed?

Options :

1. ✖ brittle shear zone

2. ✔ ductile shear zone

3. ✖ semi brittle shear zone

4. ✖ ductile - brittle shear zone

Question Number : 47 Question Id : 3838234367 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The basement rocks are often

Options :

1. ✖ highly sedimentary and non-crystalline in nature

2. ✖ highly sedimentary but crystalline in nature

3. ✖ highly metamorphic and non-crystalline in nature

4. ✔ highly metamorphic and crystalline in nature

Question Number : 48 Question Id : 3838234368 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The ratio of silicon to oxygen in pyroxenes is

Options :

1. ✖ 1:1

2. ✖ 1:2

3. ✖ 3:1

4. ✔ 1:3

Question Number : 49 Question Id : 3838234369 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Olivine mineral chemical formula is

Options :

1. ✔ $(Mg, Fe)_2 SiO_4$

2. ✖ $(Mg, Fe)_3 SiO_4$

3. ✖ $(Mg, Fe)_4 SiO_4$

4. ✖ $(Mg, Fe)_5 SiO_4$

Question Number : 50 Question Id : 3838234370 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The absolute refractive index for a mineral is defined as the refraction relative to that in air. Then its value for different minerals ranges between

Options :

1. ✖ 1 and 1.2

2. ✔ 1.3 and 2

3. ✖ 2 and 3

4. ✖ 3 and 4.5

Question Number : 51 Question Id : 3838234371 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

In a Brazilian test, the rock specimen diameter shall preferably be

Options :

1. ✔ not less than NX core size (54 mm), or at least 10 times the average grain size

2. ✖ not less than NX core size (75 mm), or at least 10 times the average grain size

3. ✖ not less than NX core size (54 mm), or at least 20 times the average grain size

4. ✖ not less than NX core size (75 mm), or at least 20 times the average grain size

Question Number : 52 Question Id : 3838234372 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The absorption value of stones is estimated corresponding to the saturation period of

Options :

1. ✖ 24 hours or until full saturation

2. ✖ 48 hours or until full saturation

3. ✔ 72 hours or until full saturation

4. ✖ 36 hours or until full saturation

Question Number : 53 Question Id : 3838234373 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

For a stone to be used in road work, the coefficient of hardness as worked out from the hardness test should be

Options :

1. ✔ more than 17

2. ✖ 15 to 17

3. ✖ 9 to 15

4. ✖ Less than 9

Question Number : 54 Question Id : 3838234374 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following orientation of beds is most suitable for dam construction?

Options :

1. ✖ beds which are faulted

2. ✖ beds which are folded

3. ✔ beds with gently inclined in upstream direction

4. ✖ beds with steep upstream dip

Question Number : 55 Question Id : 3838234375 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1

Which of the following minerals possesses more electrical resistivity?

Options :

1. ✔ quartz

2. ✖ granite

3. ✖ mica

4. ✖ basalt

Question Number : 56 Question Id : 3838234376 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

For a fair rock, the Rock Quality Designation (RQD) in percentage varies from

Options :

1. ✖ 0 to 25

2. ✖ 25 to 50

3. ✔ 50 to 75

4. ✖ 75 to 90

Question Number : 57 Question Id : 3838234377 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following materials is an example for aquitard?

Options :

1. ✖ sand and poorly fractured metamorphic rock

2. ✖ clay and highly fractured metamorphic rocks

3. ✖ till and highly fractured metamorphic rocks

4. ✔ poorly fractured metamorphic rock and clay

Question Number : 58 Question Id : 3838234378 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

An earthquake with a hypocenter depth exceeding 300 km is known as

Options :

1. ✖ Shallow-focus earthquake

2. ✖ Intermediate-focus earthquake

3. ✔ Deep-focus earthquake

4. ✖ Surface-focus earthquake

Question Number : 59 Question Id : 3838234379 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following is the ISO standard for water quality?

Options :

1. ✔ ISO 24512: 2007

2. ✖ ISO 9001: 2015

3. ✖ ISO 27001: 2013

4. ✖ ISO 14001: 2015

Question Number : 60 Question Id : 3838234380 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following is not the assumptions of Theis equation?

Options :

1. ✖ constant discharge of water

2. ✖ homogeneous and isotropic soil

3. ✔ partially penetrating well

4. ✘ water released immediately from aquifer storage

Question Number : 61 Question Id : 3838234381 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The earth's equatorial and polar radius respectively are

Options :

1. ✘ 6357 km and 6378 km

2. ✔ 6378 km and 6357 km

3. ✘ 3189 km and 3178.5 km

4. ✘ 3178.5 km and 3189 km

Question Number : 62 Question Id : 3838234382 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The angle of inclination of the axis of rotation of earth is

Options :

1. ✘ 22.0 degrees

2. ✘ 22.5 degrees

3. ✘ 23.0 degrees

4. ✔ 23.5 degrees

Question Number : 63 Question Id : 3838234383 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

How many degrees of longitude, each time zone covers?

Options :

1. ✔ 15

2. ✖ 30

3. ✖ 60

4. ✖ 180

Question Number : 64 Question Id : 3838234384 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Gravitation potential is defined as

Options :

1. ✖ work done by the gravitational force per unit area

2. ✖ work done by the gravitational force per unit volume

3. ✔ work done by the gravitational force per unit mass

4. ✖ work done by the gravitational force per unit time

Question Number : 65 Question Id : 3838234385 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The unit of the acceleration due to gravity in Newtons (N) and kilograms (kg) is

Options :

1. ✔ Nkg^{-1}

2. ✖ kgN^{-1}

3. ✖ Nkg

4. ✖ $N^{-1}kg^{-1}$

Question Number : 66 Question Id : 3838234386 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The point on the orbital of the earth which is nearest to the sun is called as

Options :

1. ✔ perihelion point

2. ✖ aphelion point

3. ✖ shortest distance point

4. ✖ highest distance point

Question Number : 67 Question Id : 3838234387 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
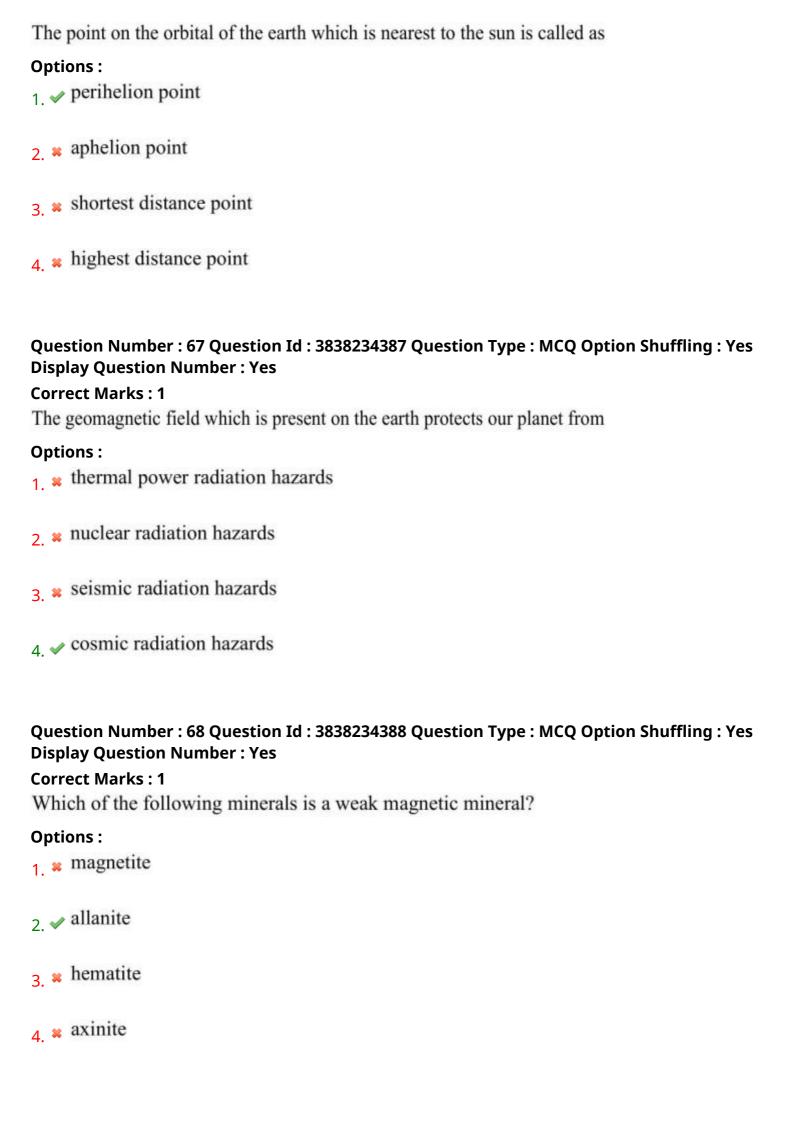
Correct Marks : 1

The geomagnetic field which is present on the earth protects our planet from

Options :

1. ✖ thermal power radiation hazards

2. ✖ nuclear radiation hazards

3. ✖ seismic radiation hazards

4. ✔ cosmic radiation hazards

Question Number : 68 Question Id : 3838234388 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following minerals is a weak magnetic mineral?

Options :

1. ✖ magnetite

2. ✔ allanite

3. ✖ hematite

4. ✖ axinite

Question Number : 69 Question Id : 3838234389 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The most commonly available minerals in the oceanic crust are

Options :

1. ✔ clinopyroxene, orthopyroxene, olivine

2. ✘ quartz, feldspar, mica

3. ✘ clinopyroxene, quartz, feldspar, mica

4. ✘ orthopyroxene, feldspar, mica

Question Number : 70 Question Id : 3838234390 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The earth's circumference is nearly

Options :

1. ✘ 30075 km

2. ✘ 40075 km

3. ✔ 50075 km

4. ✘ 60075 km

Question Number : 71 Question Id : 3838234391 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following physical properties of the earth's mantle controls the transmission of geomagnetic signals from the core to the surface?

Options :

1. ✔ electrical conductivity

2. ✘ electrical voltage

3. ✘ electric rotational energy

4. ✖ electric current

Question Number : 72 Question Id : 3838234392 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The Gutenberg discontinuity is located at

Options :

1. ✖ boundary between the earth's crust and mantle

2. ✖ within the mantle zone

3. ✔ boundary between the earth's mantle and core

4. ✖ within the core zone

Question Number : 73 Question Id : 3838234393 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The earth's magnetic field approximately ranges between

Options :

1. ✖ 250 and 650 microteslas

2. ✔ 25 and 65 microteslas

3. ✖ 2.5 and 6.5 microteslas

4. ✖ 0.25 and 0.65 microteslas

Question Number : 74 Question Id : 3838234394 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following natural calamities cannot be predicted in advance very accurately?

Options :

1. ✖ famine

2. ✖ flood

3. ✖ cyclone

4. ✔ earthquake

Question Number : 75 Question Id : 3838234395 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following is used to quantify the energy that is released during an earthquake?

Options :

1. ✖ seismograph

2. ✖ seismogram

3. ✔ Richter scale

4. ✖ damper

Question Number : 76 Question Id : 3838234396 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following magnitude of an earthquake results in serious damage?

Options :

1. ✖ 5.5 to 6

2. ✔ 7.0 to 7.9

3. ✖ 6.1 to 6.9

4. ✖ 5.1 to 5.4

Question Number : 77 Question Id : 3838234397 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The earthquake magnitude is the measure of

Options :

1. ✔ seismic wave amplitude

2. ✘ seismic wave velocity

3. ✘ seismic wave length

4. ✘ seismic wave period

Question Number : 78 Question Id : 3838234398 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If I_0 is the intensity of an earthquake, which of the following expressions is the correct one as per the Gutenberg and Richter for local magnitude of an earthquake?

Options :

1. ✔ $M_L = (2/3) I_0 + 1$

2. ✘ $M_L = (3/2) I_0 + 1$

3. ✘ $M_L = (2/3) I_0$

4. ✘ $M_L = (3/2) I_0$

Question Number : 79 Question Id : 3838234399 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Choose the correct options from the following in relation to occurrence of liquefaction of soil

Options :

1. ✘ High ground water table, static load and loose fine sand

2. ✘ High ground water table, static load and dense coarse sand

3. ✔ High ground water table, dynamic load and loose fine sand

4. ✖ High ground water table, dynamic load and dense coarse sand

Question Number : 80 Question Id : 3838234400 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

For which of the following seismic waves the velocity is directly proportional to the shear strength of the material through which they pass?

Options :

1. ✖ R-waves

2. ✖ L-waves

3. ✖ P- wave

4. ✔ S-waves

Question Number : 81 Question Id : 3838234401 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following is the correct relation between photographic scale (S) and focal length (f) of the camera lens?

Options :

1. ✔ $S \propto f$

2. ✖ $S \propto (1/f)$

3. ✖ $S \propto f^2$

4. ✖ $S \propto (1/f^2)$

Question Number : 82 Question Id : 3838234402 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

For the medium scale aerial photographs, the scale ranges between

Options :

1. ✖ $1 : 10000$ and $1 : 15000$

2. ✖ 1 : 30000 and 1 : 50000

3. ✔ 1 : 15000 and 1:30000

4. ✖ 1 : 50000 and 1:10000

Question Number : 83 Question Id : 3838234403 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following is the correct one as per the scale of aerial photograph and scale of map is concerned?

Options :

1. ✖ scale of aerial photograph is uniform throughout

2. ✔ scale of aerial photograph is non-uniform throughout

3. ✖ scale of map cannot be defined

4. ✖ scale of map is nonuniform throughout

Question Number : 84 Question Id : 3838234404 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following objects reflect more energy?

Options :

1. ✖ smooth and moist object surfaces

2. ✖ rough and moist object surfaces

3. ✔ smooth and dry object surfaces

4. ✖ rough and dry object surfaces

Question Number : 85 Question Id : 3838234405 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Colour signature on standard false colour composite of an earth surface feature such as turbid waterbody is

Options :

1. ✔ light blue

2. ✘ dark blue

3. ✘ light green

4. ✘ thick black

Question Number : 86 Question Id : 3838234406 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Low earth orbit crosses the equator at

Options :

1. ✘ 45°

2. ✘ 60°

3. ✔ 90°

4. ✘ 105°

Question Number : 87 Question Id : 3838234407 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following airborne platforms measure the wind velocity?

Options :

1. ✔ Rawinsonde

2. ✘ Radiosonde

3. ✘ Balloons based airborne platform

4. ✘ Balloons based earth system

Question Number : 88 Question Id : 3838234408 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The sensors which are used to measure the temperature and study of atmosphere are called as

Options :

1. ✖ scanning sensors

2. ✔ non imaging sensors

3. ✖ non scanning sensors

4. ✖ framing sensors

Question Number : 89 Question Id : 3838234409 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following refers to the arrangement and frequency of tonal variation in particular areas of an image?

Options :

1. ✔ texture

2. ✖ shape

3. ✖ pattern

4. ✖ size

Question Number : 90 Question Id : 3838234410 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following element is described as 'short' in image interpretation analysis?

Options :

1. ✖ size

2. ✖ shape

3. ✖ pattern

4. ✔ height

Question Number : 91 Question Id : 3838234411 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following is correct as per the Stefan-Boltzmann law? (where, M = total radiant emitted from the surface of a material, σ = Stefan-Boltzmann constant and T = absolute temperature)

Options :

1. ✔ $M = \sigma T^4$

2. ✖ $M = \sigma T^3$

3. ✖ $M = \sigma T^2$

4. ✖ $M = \sigma T$

Question Number : 92 Question Id : 3838234412 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The ratio of the total stream length cumulated for all orders in the basin to the total area of basin is called as

Options :

1. ✖ basin ratio

2. ✖ drainage pattern

3. ✔ drainage density

4. ✖ texture ratio

Question Number : 93 Question Id : 3838234413 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

In GIS, the stored information either spatial data or associated tabular data can be retrieved with the help of language called

Options :

1. ✖ C language

2. ✖ Python

3. ✔ SQL

4. ✖ FORTRAN

Question Number : 94 Question Id : 3838234414 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following data format for ArcView GIS that defines the geometry and attribute of geographically referenced objects by three specific files i.e., a main file, an index file, and a database table?

Options :

1. ✖ ArcInfo EOO

2. ✔ Shapefiles

3. ✖ ArcInfo Coverage

4. ✖ Computer Graphics Metafile

Question Number : 95 Question Id : 3838234415 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following proprietary raster format the ESRI uses in its software products such as ArcInfo and ArcView GIS?

Options :

1. ✔ GRID

2. ✖ PNG

3. ✖ GIF

4. ✖ GeoTIFF

**Question Number : 96 Question Id : 3838234416 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes**

Correct Marks : 1

The vector model is extremely useful for describing

Options :

1. ✖ continuously varying features

2. ✖ soil features

3. ✖ precipitation and temperature features

4. ✔ discrete features

**Question Number : 97 Question Id : 3838234417 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes**

Correct Marks : 1

In a GPS system, if one of the receivers is in relative motion with respect to the other
receiver, having been mounted either on a vehicle, ship or aircraft is called as
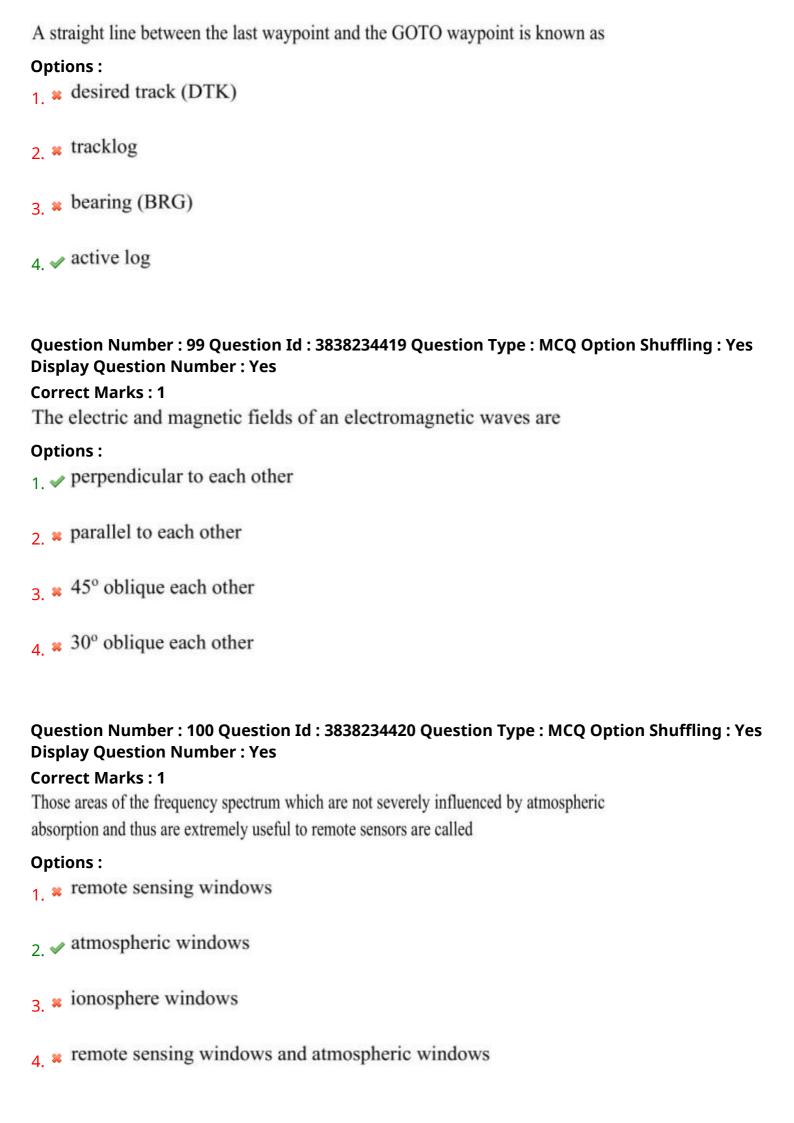
Options :

1. ✔ kinematic GPS

2. ✖ MDGPS

3. ✖ DGPS

4. ✖ Absolute GPS

**Question Number : 98 Question Id : 3838234418 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes**

Correct Marks : 1

A straight line between the last waypoint and the GOTO waypoint is known as

Options :

1. ✖ desired track (DTK)

2. ✖ tracklog

3. ✖ bearing (BRG)

4. ✔ active log

Question Number : 99 Question Id : 3838234419 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The electric and magnetic fields of an electromagnetic waves are

Options :

1. ✔ perpendicular to each other

2. ✖ parallel to each other

3. ✖ 45° oblique each other

4. ✖ 30° oblique each other

Question Number : 100 Question Id : 3838234420 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Those areas of the frequency spectrum which are not severely influenced by atmospheric absorption and thus are extremely useful to remote sensors are called

Options :

1. ✖ remote sensing windows

2. ✔ atmospheric windows

3. ✖ ionosphere windows

4. ✖ remote sensing windows and atmospheric windows

Question Number : 101 Question Id : 3838234421 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The principle of working from whole to part is used in surveying because

Options :

1. ✖ plotting becomes easy

2. ✖ survey work can be completed quickly

3. ✔ accumulation of errors can be prevented

4. ✖ even in odd climate also surveying can be carried out

Question Number : 102 Question Id : 3838234422 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The smallest length that can be drawn on a map is

Options :

1. ✔ 0.2 mm

2. ✖ 0.5 mm

3. ✖ 10 mm

4. ✖ 15 mm

Question Number : 103 Question Id : 3838234423 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If the intercept on a vertical staff is observed as 0.5 m from a tacheometer, the horizontal distance between tacheometer and the staff station is (assume K= 100, C=0)

Options :

1. ✖ 5 m

2. ✖ 25 m

3. ✖ 75 m

4. ✔ 50 m

Question Number : 104 Question Id : 3838234424 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

It is convenient to record the field notes for a closed traverse in the field book

Options :

1. ✔ from left to right

2. ✖ from right to left

3. ✖ from top to down

4. ✖ from down to top

Question Number : 105 Question Id : 3838234425 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The height of the instrument is equal to

Options :

1. ✖ back sight + fore sight

2. ✖ RL of bench mark + fore sight

3. ✖ RL of bench mark + intermediate sight

4. ✔ RL of bench mark + back sight

Question Number : 106 Question Id : 3838234426 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Surveys which are carried out to provide a national grid of control for preparation of accurate maps of large areas are known as

Options :

1. ✖ plane surveys

2. ✔ geodetic surveys

3. ✖ geographical surveys

4. ✖ topographical surveys

Question Number : 107 Question Id : 3838234427 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The temporary adjustments of surveyor compass involve

Options :

1. ✖ centering only

2. ✖ levelling only

3. ✔ centering and levelling

4. ✖ centering, levelling and focusing the prism

Question Number : 108 Question Id : 3838234428 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

If the altitude bubble is provided both on the index frame as well as on the telescope of a theodolite, then the instrument is levelled with reference to the

Options :

1. ✖ altitude bubble on the telescope

2. ✔ altitude bubble on the index frame, if it is to be used as a level

3. ✖ altitude bubble on the telescope, if it is to be used as a level

4. ✖ laser principle

Question Number : 109 Question Id : 3838234429 Question Type : MCQ Option Shuffling : Yes

Correct Marks : 1

With regard to the theodolite, which one of the following statements is correct?

Options :

1. ✖ the axis of the plate level should be parallel to the vertical axis

2. ✖ the axis of striding level must be parallel to the horizontal axis

3. ✖ the axis of the altitude level must be perpendicular to the line of collimation

4. ✔ the line of collimation must be perpendicular to the plate level axis

Question Number : 110 Question Id : 3838234430 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1

If n is the number of sides of a traverse, the theoretical sum of the interior included angles of a closed traverse is

Options :

1. ✔ (2n - 4) x 90°

2. ✖ (2n + 4) x 90°

3. ✖ (2n ± 4) x 90°

4. ✖ 360°

Question Number : 111 Question Id : 3838234431 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1

Overturning of vehicles on a curve can be avoided by using a

Options :

1. ✖ compound curve

2. ✖ vertical curve

3. ✖ reverse curve

4. ✔ transition curve

Question Number : 112 Question Id : 3838234432 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1

The curve which deflects to the right of the direction of the progress of survey is called as

Options :

1. ✔ Right hand curve

2. ✖ Left hand curve

3. ✖ Eastward curve

4. ✖ Westward curve

Question Number : 113 Question Id : 3838234433 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1

Transition curves are introduced at each end of a circular curve to obtain

Options :

1. ✖ gradual decrease of curvature from zero at the tangent point to a specified quantity at the junction of the transition curve with the main curve

2. ✔ gradual increase of super elevation from zero at the tangent point to a specified amount at the junction of the transition curve with the main curve

3. ✖ gradual change of gradient from zero at the tangent point to a specified amount at the junction of the transition curve with the main curve

4. ✖ gradual change of gradient from 1 in 6 at the tangent point to a specified amount at the junction of the transition curve with the main curve

Question Number : 114 Question Id : 3838234434 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes
Correct Marks : 1

Perpendicular offset from the junction of a transition curve and circular curve to the tangent is equal to

Options :

1. ✖ 1 times shift

2. ✖ 0.5 times shift

3. ✖ 2 times shift

4. ✔ 4 times shift

Question Number : 115 Question Id : 3838234435 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

In an external focusing telescope, the focusing of the objective is achieved by

Options :

1. ✖ movement of a negative concave lens

2. ✔ movement of objective

3. ✖ movement of cross-staff

4. ✖ double convex lens

Question Number : 116 Question Id : 3838234436 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Which of the following options is the correct one as per the principle of barometric levelling

Options :

1. ✔ atmospheric pressure varies inversely with height

2. ✖ atmospheric pressure varies proportionately with height

3. ✖ atmospheric pressure varies constantly with height

4. ✖ atmospheric pressure is zero through out

Question Number : 117 Question Id : 3838234437 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

In reciprocal levelling, the error which is not completely eliminated is due to

Options :

1. ✖ curvature

2. ✔ refraction

3. ✖ non-adjustment of line of collimation

4. ✖ parallax

Question Number : 118 Question Id : 3838234438 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

Mathematical check for the computation of R.L. by rise and fall method is given by

Options :

1. ✖ Σ FS - Σ BS = RL of last station point – RL of first station point = Σ Fall - Σ Rise

2. ✖ Σ BS - Σ FS = RL of first station point – RL of last station point = Σ Fall - Σ Rise

3. ✔ Σ BS - Σ FS = RL of last station point – RL of first station point = Σ Rise - Σ Fall

4. ✖ Σ BS - Σ FS = RL of first station point – RL of last station point = Σ Rise - Σ Fall

Question Number : 119 Question Id : 3838234439 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

The wave lengths used in various electronic distance measurement systems covers fairly the spectrum of range

Options :

1. ✖ 40 m to 450 m

2. ✖ 40 m to 450 mm

3. ✖ 40 m to 450 µm

4. ✔ 40 m to 450 nm

Question Number : 120 Question Id : 3838234440 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes

Correct Marks : 1

After subjecting the EDM systems to the meteorological corrections, the possible accuracy range expected in short range and long range EDM systems respectively is

Options :

1. ✖ 0.15 mm to 1 mm and 0.5 mm to 1.5 mm

2. ✔ 1.5 mm to 10 mm and 5 mm to 15 mm

3. ✖ 15 mm to 100 mm and 50 mm to 150 mm

4. ✖ 150 mm to 1000 mm and 500 mm to 1500 mm