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Geo Engineering and Geo Informatics

Group Number : 1
Group Id : 39090041
Group Maximum Duration : 0
Group Minimum Duration : 120
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Break time: 0
Group Marks: 120

Mathematics

Section Id : 39090076
Section Number : 1
Section type : Online
Mandatory or Optional: Mandatory
Number of Questions: 10
Number of Questions to be attempted: 10
Section Marks: 10
Display Number Panel: Yes
Group All Questions: No

Sub-Section Number: 1
Sub-Section Id: 39090076
Question Shuffling Allowed : Yes

Question Number : 1 Question Id : 3909004801 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

$$A = \begin{bmatrix} \cos x & \sin x & 0 \\ -\sin x & \cos x & 0 \\ 0 & 0 & 1 \end{bmatrix} = f(x) \text{ then } A^{-1} \text{ is ...}$$

Options :

1. $f(-x)$
2. $-f(x)$
3. $f(x)$
4. $-f(-x)$

Question Number : 2 Question Id : 3909004802 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If $f(x) = \begin{vmatrix} a & -1 & 0 \\ ax & a & -1 \\ ax^2 & ax & a \end{vmatrix}$ then $f(2x) - f(x) =$

Options :

1. -1
2. 0
3. 1
4. 2

Question Number : 3 Question Id : 3909004803 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

For the matrix $A = \begin{bmatrix} 3 & -2 & 2 \\ 0 & -2 & 1 \\ 0 & 0 & 1 \end{bmatrix}$, one of the eigenvalues is equal to -2. Which of the

following is an eigenvector?

Options :

1. $\begin{bmatrix} 3 \\ -2 \\ 1 \end{bmatrix}$

2. $\begin{bmatrix} 1 \\ -2 \\ 3 \end{bmatrix}$

3. $\begin{bmatrix} 2 \\ 0 \\ 0 \end{bmatrix}$

4. $\begin{bmatrix} 2 \\ 5 \\ 0 \end{bmatrix}$

Question Number : 4 Question Id : 3909004804 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Value of the integral $\iint_S (x+z)dydx + (y+z)dzdx + (x+y)dxdy$ where S is the surface of the sphere $x^2 + y^2 + z^2 = 4$ is ...

Options :

1. $\frac{8\pi}{3}$

2. $\frac{16\pi}{3}$

3. $\frac{32\pi}{3}$

4. $\frac{64\pi}{3}$

Question Number : 5 Question Id : 3909004805 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

If $u = (x^{1/4} + y^{1/4})(x^{1/5} + y^{1/5})$ then $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y} = \dots$

Options :

1. $\frac{7}{20}u$

2. $\frac{9}{20}u$

3. $\frac{11}{20}u$

4. $\frac{13}{20}u$

Question Number : 6 Question Id : 3909004806 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Analytic function of a complex variable $z = x + iy$ is expressed as

$f(z) = u(x, y) + iv(x, y)$ where $i = \sqrt{-1}$. If $u = xy$ the expression for v should be

Options :

1. $\frac{(y-x)^2}{2} + k$

2. $\frac{y^2 + x^2}{2} + k$

3. $\frac{y^2 - x^2}{2} + k$

4. $\frac{(y+x)^2}{2} + k$

Question Number : 7 Question Id : 3909004807 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Using Cauchy's integral theorem, the value of the $\oint_C z^2 dz$ where C is taken over the boundary over a square with vertices $\pm 1 \pm i$ in counter-clock wise direction is ...

Options :

1. 0
2. π
3. πi
4. $-\pi i$

Question Number : 8 Question Id : 3909004808 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The mean and standard deviations of the two samples are given as follows

Sample size-I($n_1 = 50$)	Mean = 54.1	Standard deviation=8
Sample size-II($n_2 = 100$)	Mean = 50.3	Standard deviation=7

Then the mean of the combined sample is...

Options :

1. 45.65
2. 49.56
3. 51.57
4. 50.12

Question Number : 9 Question Id : 3909004809 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If $f(x) = \begin{cases} \frac{e^{3x}}{4}, & 0 \leq x \leq b \\ 0, & \text{elsewhere} \end{cases}$ is a valid density function then the value of b is ...

Options :

1. $\frac{1}{2}\ln(11)$

2. $\frac{1}{2}\ln(9)$

3. $\frac{1}{3}\ln(11)$

4. $\frac{1}{3}\ln(13)$

Question Number : 10 Question Id : 3909004810 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

If the chance that a bus arrives safely at a bus stand is $\frac{9}{10}$. The probability that out of 5 buses expected at least 4 buses will arrive safely is ...

Options :

1. $\frac{14 \times 9^4}{10^5}$

2. $\frac{14 \times 10^5}{9^5}$

3. $\frac{14 \times 10^4}{9^5}$

4. $\frac{14 \times 9^4}{10^4}$

Geo Engineering and Geo Informatics

Section Id :	39090077
Section Number :	2
Section type :	Online
Mandatory or Optional:	Mandatory

Number of Questions:	110
Number of Questions to be attempted:	110
Section Marks:	110
Display Number Panel:	Yes
Group All Questions:	No

Sub-Section Number:	1
Sub-Section Id:	39090077
Question Shuffling Allowed :	Yes

Question Number : 11 Question Id : 3909004811 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A low land with faint relief with some low resistance remnants is called

Options :

1. Penne pane
2. Monadnocks
3. Distributaries
4. Deltas

Question Number : 12 Question Id : 3909004812 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of these is not a karst features?

Options :

1. Uvalas
2. Sink hole
3. Swallow hole
4. Alluvial fan

Question Number : 13 Question Id : 3909004813 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Study of current and past landscapes formation is known as

Options :

1. Morphology
2. Aerology
3. Biology
4. Geomorphology

Question Number : 14 Question Id : 3909004814 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of these exogenic forces result in Aeolian land form?

Options :

1. Running ware
2. Glacier
3. Wind
4. Underground water

Question Number : 15 Question Id : 3909004815 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Dendritic pattern develops on a

Options :

1. Relatively uniform bed rock
2. Isolated volcanic cones
3. Highly jointed rocks
4. Alternate weak and resistant bed rock

Question Number : 16 Question Id : 3909004816 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The average width of continental shelf is

Options :

1. 80 km
2. 120 km
3. 150 km
4. 40 km

Question Number : 17 Question Id : 3909004817 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following factor effecting the distribution of temperature of ocean is correct?

Options :

1. Warm ocean currents rise the temperature in cold area while cold current increase the temperature on warm areas
2. Oceans in northern hemisphere receive more heat than southern hemisphere
3. Wind blowing from land towards ocean drive warm surface water toward the coast
4. Temperature of surface water increases from equator to pole

Question Number : 18 Question Id : 3909004818 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Glaciated regions are associated with

Options :

1. U- Shaped valley
2. V- Shaped valley
3. Sand dunes
4. Stalactites

Question Number : 19 Question Id : 3909004819 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

In which of the following areas would a radial drainage generally developed?

Options :

1. Composition of volcano
2. Stream terrace
3. Delta
4. Drainage divide

Question Number : 20 Question Id : 3909004820 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following statement is true?

Options :

1. Active volcanoes are always explosive
2. A volcano plug is made up of viscous lava
3. Active volcanoes never become dormant
4. Volcanic activity is confined to low and middle latitude

Question Number : 21 Question Id : 3909004821 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of these methods of Tunnel construction is not suitable for rock?

Options :

1. Drift method
2. Full face method
3. Compressed air method
4. Heading and benching method

Question Number : 22 Question Id : 3909004822 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following is the shield work for Tunneling?

Options :

1. Liner plate
2. Cutting edge
3. Stiffener
4. Trench jack

Question Number : 23 Question Id : 3909004823 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Folding is the result of

Options :

1. Orogenetic force
2. Coriolis force
3. Epeirogenetic force
4. Exogenetic force

Question Number : 24 Question Id : 3909004824 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The process in which one plate is carried beneath another is called

Options :

1. Transformation
2. Subduction
3. Convergence
4. collision

Question Number : 25 Question Id : 3909004825 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Felsic and intrusive is property of

Options :

1. Granite
2. Andesite
3. Basalt
4. Lime stone

Question Number : 26 Question Id : 3909004826 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct order of earth through geologic time scale

Options :

1. Devonian, Permian, Triassic, Cambrian, Jurassic and Cretaceous
2. Triassic, Jurassic, Cretaceous, Cambrian, Devonian and Permian
3. Cambrian, Devonian, Permian, Triassic, Jurassic and Cretaceous
4. Jurassic, Cambrian, Devonian, Permian, Triassic and Cretaceous

Question Number : 27 Question Id : 3909004827 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

When the lithosphere plates collide then break and move atop one another along a

Options :

1. Transform fault
2. Normal fault
3. trick-slip fault
4. Over thrust fault

Question Number : 28 Question Id : 3909004828 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which type of rocks are usually formed under the water when grains of broken rocks are glued together?

Options :

1. Volcanic rocks
2. Sedimentary rocks
3. Metamorphic rocks
4. Igneous rocks

Question Number : 29 Question Id : 3909004829 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The grain size is classified as clay if the particle diameter is

Options :

1. 6 mm
2. < 0.002 mm
3. 0.002 to 2mm
4. 2mm

Question Number : 30 Question Id : 3909004830 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The rock formed by chemical precipitation from sea water or salty inland lakes is

Options :

1. Coal
2. Lime stone
3. Shale
4. Mudstone

Question Number : 31 Question Id : 3909004831 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

In which type of rocks are coal and petroleum found?

Options :

1. Metamorphic
2. Igneous
3. Granite
4. Sedimentary

Question Number : 32 Question Id : 3909004832 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Igneous rocks that have lowest content of silica are known as

Options :

1. Mafic rock
2. Ultramafic rocks
3. Felsic rocks
4. Propyry

Question Number : 33 Question Id : 3909004833 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Arrange the following regions according to their increasing wavelengths

Options :

1. Visible, Gamma rays, X rays, and Infrared
2. Gamma rays, X rays, Visible and Infrared
3. Gamma rays, Infrared, Visible and X rays
4. Infrared, Gamma rays, Visible and X rays

Question Number : 34 Question Id : 3909004834 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Description of smallest features in data set that can be displayed or mapped is known as

Options :

1. Accuracy
2. Bias
3. Generalization
4. Resolution

Question Number : 35 Question Id : 3909004835 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a component of database management system?

Options :

1. Data definition
2. Storage definition
3. Data base administration
4. synchronization

Question Number : 36 Question Id : 3909004836 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What does the total number of pixels in the region define?

Options :

1. Perimeter
2. Area
3. Intensity
4. Brightness

Question Number : 37 Question Id : 3909004837 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pick up the correct statement from the following

Options :

1. Phytoplankton contains photo synthetically active pigment
2. An increasing Phytoplankton increases the back scattering in the green region
3. An increase of phytoplankton decrease the back scattering in the green region
4. An increase of Phytoplankton absorbs the blue region rapidly

Question Number : 38 Question Id : 3909004838 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The water bearing strata sandwiched between the impervious layers is known as

Options :

1. Aquiclude
2. Aquifer
3. Deep well
4. Shallow well

Question Number : 39 Question Id : 3909004839 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The zone of a sea lying over the continental shelf is known as the

Options :

1. Bathyl zone
2. Neritic zone
3. Abyssal zone

4. Littoral zone

Question Number : 40 Question Id : 3909004840 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one of the following gases is found in highest quantity in exosphere?

Options :

1. Hydrogen
2. Helium
3. Nitrogen
4. Oxygen

Question Number : 41 Question Id : 3909004841 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What are the reasons for the seasons?

Options :

1. Earth tilt and revolution
2. Earth tilt and rotation
3. Earth tilt and resolution
4. Earth rotation and revolution

Question Number : 42 Question Id : 3909004842 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is most destructive earthquake induced waves?

Options :

1. R-waves
2. P- waves
3. L-waves

4. Surface waves

Question Number : 43 Question Id : 3909004843 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not correct?

Options :

1. Rate of increase of temperature beneath the surface is decreasing towards the centre of the earth

2. Pressure decreases from the surface towards the centre of the ground

3. Density of earth's layers also gets on increasing towards the centre.

4. The temperature at the centre is estimated to lie somewhere between 3000°C and 5000°C

Question Number : 44 Question Id : 3909004844 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

At which value of temperature Degree Celsius ($^{\circ}\text{C}$) and Degree foreign ($^{\circ}\text{F}$) heat are equal

Options :

1. -40°

2. $+40^{\circ}$

3. 0°

4. 100°

Question Number : 45 Question Id : 3909004845 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Triple point of water is

Options :

1. 100°C

2. 273°K

3. 273°C

4. 100°K

Question Number : 46 Question Id : 3909004846 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Percentage of fresh water on earth is

Options :

1. 5%

2. 66%

3. 3%

4. 75%

Question Number : 47 Question Id : 3909004847 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Earth is at the largest distance from the sun on

Options :

1. June 21st

2. January 3rd

3. September 23rd

4. July 4th

Question Number : 48 Question Id : 3909004848 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

One degree of the circumference of the earth measures approximately

Options :

1. 100 km

2. 111 km

3. 150 km

4. 175 km

Question Number : 49 Question Id : 3909004849 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is super continental formed 600 million years ago?

Options :

1. Rodinia

2. Laurentia

3. Pannonia

4. Pangaea

Question Number : 50 Question Id : 3909004850 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Sea waves are due to

Options :

1. Erosional and depositional forces

2. Endogenic forces

3. Sudden forces

4. Diastrophic forces

Question Number : 51 Question Id : 3909004851 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Match the following

- | | |
|----------------|-----------------------------|
| a). Glacier | i) Desert |
| b). Meanders | ii) River of ice |
| c). Sand dunes | iii) Vertical drop of river |
| d). Waterfalls | iv) hard bed rock |

Options :

1. a-ii, b-iv, c-i, d-iii
2. a-i, b-iv, c-ii, d-iii
3. a-ii, b-i, c-iv, d-iii
4. a- iii, b- iv, c-i, d- ii

Question Number : 52 Question Id : 3909004852 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The axis of Earth which is an imaginary line makes an angle of

Options :

1. 23.5°
2. 66°
3. 90°
4. 33°

Question Number : 53 Question Id : 3909004853 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The longest day and the shortest night occur on

Options :

1. 21st June

2. 22nd June
3. 21st July
4. 22nd July

Question Number : 54 Question Id : 3909004854 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The two factors that combine to keep earth and moon in their orbits are

Options :

1. Gravity and axis
2. Gravity and speed
3. Gravity and inertia
4. Axis and speed

Question Number : 55 Question Id : 3909004855 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Earth is formed

Options :

1. 4.6 Billion years ago
2. 4.6 Million years ago
3. 2 Billion year ago
4. 2 Million years ago

Question Number : 56 Question Id : 3909004856 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Ferrites are

Options :

1. Paramagnetic

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2. Diamagnetic
 3. Ferromagnetic
 4. Non-magnetic

Question Number : 57 Question Id : 3909004857 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is called the light house of the Mediterranean Sea?

Options :

1. Vesuvius of Italy
2. Mount pelee of West Indies
3. Stramboil of sicily
4. Paracutin of Mexico

Question Number : 58 Question Id : 3909004858 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The EL Nino phenomena which sparks climatic extreme around the globe originated in the

Options :

1. Atlantic ocean
2. sea of China
3. Indian ocean
4. Pacific ocean

Question Number : 59 Question Id : 3909004859 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Earth rotates around its axis from

Options :

1. East to west
2. West to East
3. North to South
4. South to North

Question Number : 60 Question Id : 3909004860 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The abbreviation of SONAR is

Options :

1. Small navigation and range
2. Sonar navigation and ranging
3. Sun nuclear ranging
4. Sky navigation ranging

Question Number : 61 Question Id : 3909004861 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Indian sovereignty in sea extends upto _____ nautical miles.

Options :

1. 8
2. 10
3. 12
4. 15

Question Number : 62 Question Id : 3909004862 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Red tide blooms are caused by

Options :

1. Ciano bacteria
2. Algae
3. Diatoms
4. Phytoplankton

Question Number : 63 Question Id : 3909004863 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The Density of sea water ranges from

Options :

1. 90 to 950 kg/m³
2. 1020 to 1030 kg/m³
3. 950 to 1000 kg/m³
4. 1030 to 1050 kg/m³

Question Number : 64 Question Id : 3909004864 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which one among the following is responsible for the expansion of water in the ocean?

Options :

1. Nitrogen dioxide
2. Carbon dioxide
3. Carbon monoxide
4. Sulphur dioxide

Question Number : 65 Question Id : 3909004865 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Choose the correct order of ocean relief from shore to sea

Options :

1. Continental shelf, Abyssal plain, continental slope and continental rise
2. Continental rise Abyssal plain, Continental shelf and continental slope
3. Continental shelf, continental slope, continental rise Abyssal plain
4. Abyssal plain, Continental shelf, continental slope and continental rise

Question Number : 66 Question Id : 3909004866 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Salinity is expressed as amount of salt in gram dissolved in sea water per

Options :

1. 10 g
2. 100 g
3. 1000 g
4. 10000 g

Question Number : 67 Question Id : 3909004867 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a minor relief feature in ocean?

Options :

1. Seamount
2. Guyots
3. Trenches
4. Deep sea plain

Question Number : 68 Question Id : 3909004868 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

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Correct Marks : 1 Wrong Marks : 0

Largest mica producing state in India is

Options :

1. Meghalaya
2. Mizoram
3. Arunachal Pradesh
4. Nagaland

Question Number : 69 Question Id : 3909004869 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Moh's scale is used to indicate the

Options :

1. Degree of elasticity of a material
2. Degree of hardness of mineral
3. Degree of viscosity of a liquid
4. Degree of brittleness of a substance

Question Number : 70 Question Id : 3909004870 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Chemical composition of Quartz is

Options :

1. SiO_4
2. Al_2O_3
3. SiO_2
4. Si_2O_3

Question Number : 71 Question Id : 3909004871 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

When a mineral shows a smooth surface when cut by a knife, it is described as

Options :

1. Brittle
2. Flexible
3. Ductile
4. Malleable

Question Number : 72 Question Id : 3909004872 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is used in the manufacturing of radio and radar?

Options :

1. Feldspar
2. Quartz
3. Mica
4. Olivine

Question Number : 73 Question Id : 3909004873 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lime stone is not a

Options :

1. Metamorphic rock
2. Sedimentary rock
3. Stratified rock
4. Aqueous rock

Question Number : 74 Question Id : 3909004874 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The most suitable road material from the following is

Options :

1. Volcanic rocks
2. Coarse grained igneous rock
3. Hypabyssal rock
4. plutonic rock

Question Number : 75 Question Id : 3909004875 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The property of minerals that indicates how much the surface of a mineral reflects light is called

Options :

1. Tenacity
2. Luster
3. Magnetism
4. Diaphaneity

Question Number : 76 Question Id : 3909004876 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The tendency of a crystallized mineral to break along certain directions yielding more or less smooth, plane surfaces is

Options :

1. Cleavage
2. Hardness
3. Tenacity

4. Fracture

Question Number : 77 Question Id : 3909004877 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

What will be included angle of AOB if the bearing of the lines AO and OB are 130° and 40° respectively

Options :

1. 90°

2. 170°

3. 270°

4. 130°

Question Number : 78 Question Id : 3909004878 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Back bearing of a line is 36° , its Fore bearing will be

Options :

1. 200°

2. 216°

3. 316°

4. 116°

Question Number : 79 Question Id : 3909004879 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The correction for refraction as applied to staff reading is

$[(R = \text{Radius of earth (km)}, d = \text{Distance of the visible horizon (m)}]$

Options :

1. $-\frac{1}{7} \left(\frac{d^2}{2R} \right)$

2. $+\frac{1}{7}\left(\frac{d^2}{2R}\right)$

3. $-\frac{6}{7}\left(\frac{d^2}{2R}\right)$

4. $+\frac{5}{7}\left(\frac{d^2}{2R}\right)$

Question Number : 80 Question Id : 3909004880 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The number of independent conditions required to satisfied for the adjustment of a braced equilateral in triangle survey is

Options :

1. 8

2. 3

3. 6

4. 4

Question Number : 81 Question Id : 3909004881 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following scales is largest one?

Options :

1. 1 cm = 50km

2. 1:42000

3. $R. F = \frac{1}{300000}$

4. 1cm = 50m

Question Number : 82 Question Id : 3909004882 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Linear and angular accuracy of Total station respectively are

Options :

1. 1 mm&10"
2. 10 mm & 20"
3. 5 mm & 10"
4. 1 mm & 1"

Question Number : 83 Question Id : 3909004883 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The system that uses the sun as a source of electromagnetic energy and records the naturally radiated and reflected energy from the object is called

Options :

1. Geographical Information system
2. Passive Remote Sensing
3. Global Positioning System
4. Active Remote Sensing

Question Number : 84 Question Id : 3909004884 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The line joining points of equal dip is called

Options :

1. Agonic lines
2. Isoclinic lines
3. Isogonic lines

4. **Aclinic lines**

Question Number : 85 Question Id : 3909004885 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

When contours of different elevations cross each other, it indicates

Options :

1. Overhanging cliff
2. level surface
3. Saddle
4. Vertical cliff

Question Number : 86 Question Id : 3909004886 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

A hyetograph is a graphical representation of

Options :

1. Rainfall intensity and time
2. Rainfall depth and time
3. Discharge and Time
4. Cumulative rainfall

Question Number : 87 Question Id : 3909004887 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which of the following is not an analytical method of estimation of evaporation?

Options :

1. Mass transfer method

2. Energy balance method
3. Water budget method
4. Penman's equation

Question Number : 88 Question Id : 3909004888 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

If the annual stream flow from a 10km^2 catchment is 10^7 m^3 , it corresponding to its depth of

Options :

1. 10 cm
2. 10 m
3. 100 cm
4. 0.1 m

Question Number : 89 Question Id : 3909004889 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The lowering effect on the water table about the base of the well stem is called

Options :

1. Speleothem
2. Cone of depression
3. Artesian surface
4. Aquiclude

Question Number : 90 Question Id : 3909004890 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The local water table positioned above the regional water table is said to be

Options :

1. Stranded
2. Perched
3. Displaced
4. Depressed

Question Number : 91 Question Id : 3909004891 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The boundary between the saturated zone and the unsaturated zone is called

Options :

1. Water table
2. Aquifer
3. Aquiclude
4. Porosity

Question Number : 92 Question Id : 3909004892 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Direct run off is made up of

Options :

1. Surface runoff, Prompt interflow and channel precipitation
2. Surface runoff, infiltration and evapotranspiration
3. Overland flow and infiltration
4. Rainfall and evaporation

Question Number : 93 Question Id : 3909004893 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The term Gore is used to indicate

Options :

1. Rectangular land
2. Perimeter of land
3. Thin triangular land
4. A measure of distance

Question Number : 94 Question Id : 3909004894 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A 6- hour storm had 6 cm of rainfall and resulting runoff was 3 cm. If the ϕ -index remains at the same value the runoff due to 12 cm of rainfall in 9 hours in the catchment is

Options :

1. 9 cm
2. 4.5 cm
3. 6 cm
4. 7.5 cm

Question Number : 95 Question Id : 3909004895 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The number of seismograph stations needed to locate the epicenter of an earthquake is

Options :

1. 7
2. 5
3. 4

4. 3

Question Number : 96 Question Id : 3909004896 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Identify the Non Green house gas from the following

Options :

1. Carbon monoxide
2. Methane
3. Nitrous Oxide
4. Sulphur Hexafluoride

Question Number : 97 Question Id : 3909004897 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Dispersion of pollutants in atmosphere is maximum when

Options :

1. Environmental lapse rate less than adiabatic lapse rate
2. Environmental lapse rate equal to adiabatic lapse rate
3. Environmental lapse rate greater than adiabatic lapse rate
4. Maximum mixing depth is zeros

Question Number : 98 Question Id : 3909004898 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is an example of secondary pollutants?

Options :

1. Carbon dioxide
2. Nitrogen oxide

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3. Chlorofluorocarbons

4. Ozone

Question Number : 99 Question Id : 3909004899 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Worlds wetlands day is celebrated on

Options :

1. 2nd February

2. 21st February

3. 2nd March

4. 21st March

Question Number : 100 Question Id : 3909004900 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Instrument used to find the wind direction is

Options :

1. Anemometer

2. Wing gauge

3. Wind vane

4. Hygrometer

Question Number : 101 Question Id : 3909004901 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Rain shadow effects is associated with

Options :

1. Cyclonic rainfall

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2. Orographic rainfall
3. Convectional rainfall
4. Frontal rainfall

Question Number : 102 Question Id : 3909004902 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following conceptual sphere of the environment is having the least storage capacity for matter?

Options :

1. Atmosphere
2. Lithosphere
3. Hydrosphere
4. Biosphere

Question Number : 103 Question Id : 3909004903 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The environment which has been modified by human activities is called

Options :

1. Natural environment
2. Anthropogenic environment
3. Modern environment
4. Urban environment

Question Number : 104 Question Id : 3909004904 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The ratio of volume of voids to the total volume of a given soil is

Options :

1. Air ratio
2. Air content
3. Void ratio
4. Porosity

Question Number : 105 Question Id : 3909004905 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A soil having particles of nearly the same size is known as

Options :

1. Well graded
2. Uniformly graded
3. Poorly graded
4. Gap graded

Question Number : 106 Question Id : 3909004906 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A moist sample of soil weight 24 g is in tin lid. The tin lid above weighs 14g. Oven dry weight of tin and sample is 22 g. What is the water content of the soil?

Options :

1. 12.5%
2. 37.5%
3. 25%
4. 50%

Question Number : 107 Question Id : 3909004907 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Effective angle of internal friction will be

Options :

1. 180°
2. Limited to maximum of 45°
3. 90°
4. $Zero^{\circ}$

Question Number : 108 Question Id : 3909004908 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The angle between the direction of failure and the direction of major principal plane is _____ degrees when the angle of shearing resistance is of 30°

Options :

1. 60
2. 75
3. 45
4. 70

Question Number : 109 Question Id : 3909004909 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Effective stress of the soil

Options :

1. Increases void ratio and decreases permeability
2. Decreases void ratio and increases permeability
3. Increases both void ratio and permeability
4. Decreases both permeability and void ratio

Question Number : 110 Question Id : 3909004910 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The value of compression index for a remolded sample which has a liquid limit of 50%, is

Options :

1. 0.28
2. 0.028
3. 0.36
4. 0.036

Question Number : 111 Question Id : 3909004911 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Water quantity of saturated soil is 50%. If the specific gravity of the solid is 2.4, what is its void ratio?

Options :

1. 0.6
2. 2.4
3. 1.2
4. 1.8

Question Number : 112 Question Id : 3909004912 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which C Header files define numeric conversion function and memory allocation?

Options :

1. stddea.h
2. stdlib.h
3. stdio.h

4. `stdint.h`

Question Number : 113 Question Id : 3909004913 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not standard C Library?

Options :

1. `errno.h`
2. `tetarg.h`
3. `signal.h`
4. `setjmp.h`

Question Number : 114 Question Id : 3909004914 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not correct?

Options :

1. C provides object oriented programming (OOP)
2. C Programmes are collection of C Library function
3. C Compiler can only identify errors
4. C programmes are efficient and fast

Question Number : 115 Question Id : 3909004915 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

A variable name cannot consists of

Options :

1. Digits 0-9
2. —

3. #, \$
4. a – Z

Question Number : 116 Question Id : 3909004916 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following concepts make extensive use of arrays?

Options :

1. Spatial locality
2. Scheduling of processes
3. Caching
4. Binary trees

Question Number : 117 Question Id : 3909004917 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

_____ is usually used to specify the type of functions which returns nothing

Options :

1. Character
2. Float
3. Void
4. Integer

Question Number : 118 Question Id : 3909004918 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following are themselves a collection of different data types?

Options :

1. String

2. Structure
3. Char
4. Array

Question Number : 119 Question Id : 3909004919 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which function is responsible for recording the name “s” and the replacement text “t” in a table?

Options :

1. install(s, t);
2. fix(s, t);
3. setup(s, t);
4. settle(s, t);

Question Number : 120 Question Id : 3909004920 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes
Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is used to handle tasks such as mathematical computations, I/O processing, string handling?

Options :

1. Standard library functions
2. User-defined function
3. Storage class
4. Programming pointer