

Telangana State Council Higher Education

Notations :

- Options shown in green color and with ✓ icon are correct.
- Options shown in red color and with ✗ icon are incorrect.

Question Paper Name :

Geo Engineering and Geo Informatics 22nd Sept 2020 Shift 1

Subject Name :

Geo Engineering and Geo Informatics

Creation Date :

2020-09-22 16:03:46

Duration :

120

Total Marks :

120

Display Marks:

No

Share Answer Key With Delivery Engine :

Yes

Actual Answer Key :

Yes

Calculator :

None

Magnifying Glass Required? :

No

Ruler Required? :

No

Eraser Required? :

No

Scratch Pad Required? :

No

Rough Sketch/Notepad Required? :

No

Protractor Required? :

No

Show Watermark on Console? :

Yes

Highlighter :

No

Auto Save on Console? :

Yes

Geo Engineering and Geo Informatics

Group Number :

1

Group Id :

88039690

Group Maximum Duration :

0

Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	0
Group Marks :	120
Is this Group for Examiner? :	No

Mathematics

Section Id :	880396164
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 :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	880396164
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 88039610681 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 1 Wrong Marks : 0

The value of the integral $\int_0^{\pi/2} \log \left(\frac{4 + 3 \sin x}{4 + 3 \cos x} \right) dx$ would be equal to

Options :

88039642721. ✓ 0

88039642722. ✗ 1/2

88039642723. ✖ 1/4

88039642724. ✖ 1/8

Question Number : 2 Question Id : 88039610682 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If trace of the matrix $A = \begin{bmatrix} a & 7 \\ 2 & b \end{bmatrix}$ is 8 and the product of the eigen values is 1, then the values of a and b are respectively

Options :

88039642725. ✔ 5, 3

88039642726. ✖ 2, 6

88039642727. ✖ 4, 4

88039642728. ✖ 1, 7

Question Number : 3 Question Id : 88039610683 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In which one of the following intervals the function $f(x) = 2x^3 - 9x^2 + 12x + 15$ will be an increasing function?

Options :

88039642729. ✖ $(0, 1) \cup (2, \infty)$

88039642730. ✖ $(-2, 1) \cup (2, \infty)$ 88039642731. ✔ $(-\infty, 1) \cup (2, \infty)$ 88039642732. ✖ $(-\infty, -1) \cup (2, \infty)$

Question Number : 4 Question Id : 88039610684 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Let $f(x) = \sin^{-1} \frac{x}{y} + \tan^{-1} \frac{y}{x}$. Then, $x \frac{\partial f}{\partial x} + y \frac{\partial f}{\partial y} =$

Options :

88039642733. ✖ $x / \sqrt{x^2 - y^2}$ 88039642734. ✖ $y / \sqrt{x^2 - y^2}$ 88039642735. ✖ $-x / \sqrt{x^2 - y^2}$

88039642736. ✔ 0

Question Number : 5 Question Id : 88039610685 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which one of the following will be the value of the integral $\int_0^{\infty} e^{-x^2} dx$, in terms of "Gamma function" (where the symbol " Γ " stands for gamma function)

Options :

88039642737. ✖ $\Gamma\left(\frac{1}{4}\right)$

88039642738. ✔ $\frac{1}{2} * \Gamma\left(\frac{1}{2}\right)$

88039642739. ✖ $2 * \Gamma\left(\frac{1}{4}\right)$

88039642740. ✖ $\Gamma\left(\frac{1}{2}\right) * \Gamma\left(\frac{1}{4}\right)$

Question Number : 6 Question Id : 88039610686 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The sum of the mean and variance of a binomial distribution for 5 trials is 1.8. Then what would be the probability of success (p) and that of failure (q) in this distribution?

Options :

88039642741. ✔ $p = 0.2, q = 0.8$

88039642742. ✖ $p = 0.3$, $q = 0.7$

88039642743. ✖ $p = 0.5$, $q = 0.5$

88039642744. ✖ $p = 0.4$, $q = 0.6$

Question Number : 7 Question Id : 88039610687 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The value of the line integral, $\oint_C 3y \, dx + 5x \, dy$, where C is the square bounded by $x = 0, x = 5, y = 0, y = 5$, is

Options :

88039642745. ✖ 10

88039642746. ✖ 15

88039642747. ✖ 25

88039642748. ✔ 50

Question Number : 8 Question Id : 88039610688 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The value of the complex integral, $\oint_C \frac{e^{2z}}{z-2} dz$, where C is the circle $|z| = 3$, is equal to

Options :

88039642749. ✖ $2\pi i e$

88039642750. ✖ $2\pi i e^2$

88039642751. ✖ $2\pi i$

88039642752. ✔ $2\pi i e^4$

Question Number : 9 Question Id : 88039610689 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The probability that a student passes a Physics test is $\frac{2}{3}$ and the probability that he passes both a Physics and an English test is $\frac{14}{45}$. If the probability that he passes at least one of the test is $\frac{4}{5}$, then what would be the probability that he passes the English test?

Options :

88039642753. ✖ $\frac{2}{81}$

88039642754. ✔ $\frac{4}{9}$

88039642755. ✖ $\frac{2}{9}$

88039642756. ✖ $\frac{5}{9}$

Question Number : 10 Question Id : 88039610690 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

If 'X' be a Poisson variate such that $P(X = 2) = 3 P(X = 3)$, then the variance of this variate =

Options :

88039642757. ✖ 4

88039642758. ✖ 3

88039642759. ✖ 2

88039642760. ✔ 1

Geo Engineering and Geo Informatics

Section Id :	880396165
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 :	Yes
Mark As Answered Required? :	Yes
Sub-Section Number :	1
Sub-Section Id :	880396165
Question Shuffling Allowed :	Yes

Question Number : 11 Question Id : 88039610691 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
 Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
 Correct Marks : 1 Wrong Marks : 0

What will be the output for the given below C code:

```
#include <stdio.h>
#include <string.h>
int main()
{
    char A[50]= "PGECET EXAM";
    printf("%d ", strlen(A));
    return 0;
}
```

Options :

88039642761. ✖ 10

88039642762. ✖ 50

88039642763. ✔ 11

88039642764. ✖ Compilation Error

Question Number : 12 Question Id : 88039610692 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Choose the correct option which indicates the output for the following C code:

```
int main()
{
    int x;
    for (x=1; x<=10; x++)
        printf ("%d, ", x/2);
}
```

Options :

88039642765. ✖ 0.5,1,1.3,2,2.5,3,3.5,4,4.5,5

88039642766. ✔ 0,1,1,2,2,3,3,4,4,5

88039642767. ✖ 0,1,1,2,2,3,3,4,4

88039642768. ✖ 1,1,2,2,3,3,4,4,5

Question Number : 13 Question Id : 88039610693 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which of the following options is true with respect to the following C Code?

```
#include <stdio.h>
```

```
struct a
```

```
{
```

```
    char name[20];
```

```
    char address[100];
```

```
};
```

```
int main()
```

```
{
```

```
    struct a area = {
```

```
        "PGECET",
```

```
        "HYDERABAD, TELANGANA-7"
```

```
    };
```

```
    printf("\n%s", area.name);
```

```
    printf("\n%s", area.address);
```

```
}
```

Options :

88039642769. ✖ Starting address values of "name" and "address" items of the structure are displayed as output

88039642770. ✔ The output of the code is: PGECET, HYDERABAD, TELANGANA-7

88039642771. ✖ The output of the code is: PGECET, HYDERABAD.

88039642772. ✖ Code will not return any specific value

Question Number : 14 Question Id : 88039610694 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What will be the output of the following C code?

```
main()
{
    char text[]={90,90,90,90,90};
    for (int i=0;i<=4;i++)
    {
        printf("%c ",text[i]);
    }
}
```

Options :

88039642773. ✔ Z Z Z Z Z

88039642774. ✖ A A A A A

88039642775. ✖ 90 90 90 90 90

88039642776. ✖ No specific output

Question Number : 15 Question Id : 88039610695 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

What is the output of the following C code?

```
#include <stdio.h>

#include<string.h>

void main()
{
char text[]="TSPGECET EXAM-2020\0";
printf("\n%d", sizeof(text));
}
```

Options :

88039642777. ✖ 17

88039642778. ✖ 21

88039642779. ✖ 20

88039642780. ✔ 19

Question Number : 16 Question Id : 88039610696 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which of the following is a product of mechanical weathering

Options :

88039642781. ✖ Calcium carbonate

88039642782. ✖ Organic soils

88039642783. ✔ Smaller particles like sands & gravels

88039642784. ✖ Clay

Question Number : 17 Question Id : 88039610697 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The asthenosphere is

Options :

88039642785. ✔ Hot and weak

88039642786. ✖ Hot and strong

88039642787. ✖ Cool and strong

88039642788. ✖ Cool and weak

Question Number : 18 Question Id : 88039610698 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which one of the following forces dominate at divergent plate margins?

Options :

88039642789. ✖ Shearing forces

88039642790. ✔ Tensional forces

88039642791. ✖ Compressive forces

88039642792. ✖ Longitudinal forces

Question Number : 19 Question Id : 88039610699 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Darcy's law states that

Options :

88039642793. ✔ The discharge is directly proportional to head loss & area of flow and inversely proportional to the length of the path

88039642794. ✖ The discharge is directly proportional to head loss and inversely proportional to area of flow & to the length of the path

88039642795. ✖ The discharge is inversely proportional to head loss and directly proportional to the length

88039642796. ✖ The discharge is inversely proportional to head loss

Question Number : 20 Question Id : 88039610700 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

When Groundwater is pumped from a confined aquifer, the aquifer's intergranular pressure

Options :

88039642797. ✓ increases and the aquifers pore water pressure decreases

88039642798. ✗ decreases and the aquifer's pore water pressure increases

88039642799. ✗ increases and the aquifer's pore water pressure increases

88039642800. ✗ decreases and the aquifer's pore water pressure decreases

Question Number : 21 Question Id : 88039610701 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Valley glaciers are also known as

Options :

88039642801. ✗ Lowland glaciers

88039642802. ✓ Alpine glaciers

88039642803. ✗ Gorge glaciers

88039642804. ✗ Upland glaciers

Question Number : 22 Question Id : 88039610702 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following are not related to wind erosion

Options :

88039642805. ✖ Ventifact

88039642806. ✖ Deflation

88039642807. ✔ Loess

88039642808. ✖ Blowout

Question Number : 23 Question Id : 88039610703 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Coherence of two electromagnetic waves takes place if their phase difference is

Options :

88039642809. ✖ Constant in time

88039642810. ✖ Constant in space

88039642811. ✔ Constant in space and time

88039642812. ✖ Infinite

Question Number : 24 Question Id : 88039610704 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following regions consists primarily of Olivine and Pyroxene?

Options :

88039642813. ✖ Continental crust

88039642814. ✓ Upper mantle

88039642815. ✗ Oceanic crust

88039642816. ✗ Core

Question Number : 25 Question Id : 88039610705 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The coherence length over which there is a strong relationship between amplitudes is
Options :

88039642817. ✗ Directly proportional to the bandwidth

88039642818. ✗ square of the bandwidth

88039642819. ✓ Inversely proportional to the bandwidth

88039642820. ✗ cube of the bandwidth

Question Number : 26 Question Id : 88039610706 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In resistivity prospecting, sounding data will be collected along profiles

Options :

88039642821. ✗ in any direction

88039642822. ✖ perpendicular to the strike of the formation

88039642823. ✖ inclined to the strike of the formation

88039642824. ✔ parallel to the strike of the formation

Question Number : 27 Question Id : 88039610707 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Step like gravity anomalies are mostly associated with

Options :

88039642825. ✖ folds

88039642826. ✔ dip slip faults

88039642827. ✖ antiforms

88039642828. ✖ batholiths

Question Number : 28 Question Id : 88039610708 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The type of vein commonly found in igneous rocks is

Options :

88039642829. ✖ Fissure-veins

88039642830. ✔ Ladder-veins

88039642831. ✖ Gash-veins

88039642832. ✖ Stock works

Question Number : 29 Question Id : 88039610709 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Carbon can form many different compounds because it can

Options :

88039642833. ✖ make a molecule in the shape of a cube, tetrahedron, or cylinder

88039642834. ✖ combine with more metals than other elements

88039642835. ✔ combine with other carbon atoms in addition to other elements

88039642836. ✖ combine with more nonmetals than other elements

Question Number : 30 Question Id : 88039610710 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pyrope garnet and chrome diopside are characteristic minerals of

Options :

88039642837. ✔ Kimberlite

88039642838. ✖ Lamprophyre

88039642839. ✖ Lamproite

88039642840. ✖ Carbonitite

Question Number : 31 Question Id : 88039610711 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following mineral crystallizes in monoclinic system?

Options :

88039642841. ✖ Baryte

88039642842. ✖ Orthoclase

88039642843. ✔ Gypsum

88039642844. ✖ Rutile

Question Number : 32 Question Id : 88039610712 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the most common and fundamental structural element of the silicate mineral group?

Options :

88039642845. ✖ a silicon-nitrogen tetrahedron

88039642846. ✖ a silicon-aluminum tetrahedron

88039642847. ✔ a silicon-oxygen tetrahedron

88039642848. ✖ a silicon-oxygen octahedron

Question Number : 33 Question Id : 88039610713 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The heat that caused melting in the Earth's early history was supplied from

Options :

88039642849. ✔ a large impact event and radioactivity

88039642850. ✖ a large impact event and solar heating

88039642851. ✖ volcanic activity

88039642852. ✖ solar heating and volcanic activity

Question Number : 34 Question Id : 88039610714 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Features that are useful in defining plate boundaries include all the following except

Options :

88039642853. ✖ Distribution of volcanoes

88039642854. ✖ Distribution of mountain ranges

88039642855. ✖ Distribution of earthquakes

88039642856. ✓ Shorelines between continents and oceans

Question Number : 35 Question Id : 88039610715 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

An overturned fold is characterized by

Options :

- 88039642857. ✗ two limbs not parallel to each other
- 88039642858. ✗ two limbs dipping in opposite directions
- 88039642859. ✗ two limbs at right angles to one another
- 88039642860. ✓ two limbs dipping in the same direction with one tilted beyond vertical

Question Number : 36 Question Id : 88039610716 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In a triclinic crystal system all three crystallographic axes are present

Options :

- 88039642861. ✗ mutually perpendicular to each other
- 88039642862. ✗ one axis is perpendicular to other two
- 88039642863. ✗ two axes are perpendicular to the third one

88039642864. ✓ no axis is perpendicular to other

Question Number : 37 Question Id : 88039610717 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following minerals does not exhibit cleavage?

Options :

88039642865. ✗ halite

88039642866. ✗ feldspar

88039642867. ✓ quartz

88039642868. ✗ calcite

Question Number : 38 Question Id : 88039610718 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The rate of cooling of a magma or lava is reflected by the

Options :

88039642869. ✗ mineralogy of the rock

88039642870. ✓ texture of the rock

88039642871. ✗ colour of the rock

88039642872. ✖ density of the rock

Question Number : 39 Question Id : 88039610719 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Caves are formed mostly in

Options :

88039642873. ✖ granite

88039642874. ✖ basalt

88039642875. ✖ sandstone

88039642876. ✔ limestone

Question Number : 40 Question Id : 88039610720 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The two sides of a fold are called

Options :

88039642877. ✖ anticlines

88039642878. ✖ synclines

88039642879. ✔ limbs

88039642880. ✖ axial planes

Question Number : 41 Question Id : 88039610721 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which two measurements describe the orientation of a fault plane at a given location?

Options :

- 88039642881. ✗ axis and plane
- 88039642882. ✓ strike and dip
- 88039642883. ✗ trend and plunge
- 88039642884. ✗ trend and thrust

Question Number : 42 Question Id : 88039610722 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The types of faults associated with shearing forces are

Options :

- 88039642885. ✓ strike-slip
- 88039642886. ✗ reverse faults
- 88039642887. ✗ normal faults
- 88039642888. ✗ oblique faults

Question Number : 43 Question Id : 88039610723 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Number of angular measurements required to describe the orientation of fault surface

Options :

88039642889. ✖ 1

88039642890. ✖ 3

88039642891. ✖ 4

88039642892. ✔ 2

Question Number : 44 Question Id : 88039610724 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

An oblique-slip fault suggests

Options :

88039642893. ✔ shear forces combined with compressive or tensional forces

88039642894. ✖ shear forces only

88039642895. ✖ tensional forces only

88039642896. ✖ compressive forces only

Question Number : 45 Question Id : 88039610725 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Damp sand has a higher angle of repose than dry sand because of

Options :

88039642897. ✓ surface tension

88039642898. ✗ cementation

88039642899. ✗ partial melting

88039642900. ✗ dissolution

Question Number : 46 Question Id : 88039610726 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

During an earthquake, water-saturated sand can behave like a liquid. This is phenomena called

Options :

88039642901. ✗ unconsolidation

88039642902. ✗ solification

88039642903. ✓ liquefaction

88039642904. ✗ dissolution

Question Number : 47 Question Id : 88039610727 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Which one of the following occurs in permafrost regions?

Options :

88039642905. ✓ solifluction

88039642906. ✗ landslides

88039642907. ✗ liquefaction

88039642908. ✗ soil creep

Question Number : 48 Question Id : 88039610728 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The lowering effect of water table due to heavy pumping is called

Options :

88039642909. ✗ speleothem

88039642910. ✗ artesian surface

88039642911. ✓ cone of depression

88039642912. ✗ aquiclude

Question Number : 49 Question Id : 88039610729 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

At what plate boundary setting is the ocean floor deepest?

Options :

88039642913. ✓ Subduction

88039642914. ✗ divergent

88039642915. ✗ continent - continent collision

88039642916. ✗ transform

Question Number : 50 Question Id : 88039610730 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The water comes out of continental hot springs is known as

Options :

88039642917. ✗ meteoric water

88039642918. ✗ seawater

88039642919. ✓ magmatic water

88039642920. ✗ metamorphic water

Question Number : 51 Question Id : 88039610731 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following has lowest porosity?

88039642921. ✖ shale

88039642922. ✖ gravel

88039642923. ✔ granite

88039642924. ✖ sandstone

Question Number : 52 Question Id : 88039610732 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Influent streams are more common in

Options :

88039642925. ✔ arid regions

88039642926. ✖ humid regions

88039642927. ✖ permafrost regions

88039642928. ✖ sonkholes

Question Number : 53 Question Id : 88039610733 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Orbital motion of water particles due to surface waves stops approximately at a depth

Options :

88039642929. ✖ of about twice the wavelength

88039642930. ✖ equal to the wavelength

88039642931. ✔ of about one-half of the wavelength

88039642932. ✖ of about one-tenth the wavelength

Question Number : 54 Question Id : 88039610734 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Landforms caused by wave erosion are

Options :

88039642933. ✖ barrier islands

88039642934. ✔ stacks

88039642935. ✖ estuaries

88039642936. ✖ submarine canyons

Question Number : 55 Question Id : 88039610735 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Deep valleys eroded into the continental slope and shelf are called

Options :

88039642937. ✖ estuaries

88039642938. ✖ oceanic trenches

88039642939. ✖ abyssal valleys

88039642940. ✔ submarine canyons

Question Number : 56 Question Id : 88039610736 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The term used to describe an impermeable geologic unit is

Options :

88039642941. ✖ aquifer

88039642942. ✔ aquiclude

88039642943. ✖ unconfined aquifer

88039642944. ✖ artesian aquifer

Question Number : 57 Question Id : 88039610737 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

A seamount is

Options :

88039642945. ✖ a coral reef above a submerged volcano

88039642946. ✖ a small rise in the seafloor

88039642947. ✖ a hill adjacent to a spreading center

88039642948. ✔ an extinct submerged volcano

Question Number : 58 Question Id : 88039610738 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Particle motion during the passage of a 'P' wave through the rock is

Options :

88039642949. ✔ back and forth parallel to the direction of wave travel

88039642950. ✖ back and forth perpendicular to the direction of wave travel

88039642951. ✖ in a rolling circular motion

88039642952. ✖ the particles do not move at all

Question Number : 59 Question Id : 88039610739 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

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

Options :

88039642953. ✖ 2

88039642954. ✔ 3

88039642955. ✖ 1

88039642956. ✖ 4

Question Number : 60 Question Id : 88039610740 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The shear modulus measures

Options :

88039642957. ✔ the resistance to change in shape

88039642958. ✖ the resistance to flow of a liquid

88039642959. ✖ the resistance to change in volume of a liquid

88039642960. ✖ the resistance to change in volume of a solid

Question Number : 61 Question Id : 88039610741 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The highest degree of crystal symmetry is shown by

Options :

88039642961. ✖ Tetragonal system

88039642962. ✔ Cubic system

88039642963. ✖ Monoclinic system

88039642964. ✖ Triclinic system

Question Number : 62 Question Id : 88039610742 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Diametral prisms formed by the combination of

Options :

88039642965. ✔ Three pinacoids

88039642966. ✖ Three prisms

88039642967. ✖ Two pinacoids

88039642968. ✖ Four pinacoids

Question Number : 63 Question Id : 88039610743 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

At what temperature do materials lose their permanent magnetism?

Options :

88039642969. ✔ 550°C

88039642970. ✖ 850° C

88039642971. ✖ 400°C

88039642972. ✖ 100°C

Question Number : 64 Question Id : 88039610744 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The Earth's magnetic field reverses itself roughly for every

Options :

88039642973. ✖ 50 years

88039642974. ✖ 5000 years

88039642975. ✔ 500000 years

88039642976. ✖ 100 years

Question Number : 65 Question Id : 88039610745 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Permanent magnetism acquired by igneous rocks during crystallization is called

Options :

88039642977. ✖ induced magnetism

88039642978. ✖ chrono magnetism

88039642979. ✖ detrital magnetism

88039642980. ✓ thermoremanent magnetism

Question Number : 66 Question Id : 88039610746 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lagoonal deposits are deposited under

Options :

88039642981. ✓ Euxinic environment

88039642982. ✗ Estuarine environment

88039642983. ✗ Littoral environment

88039642984. ✗ Lacustrine environment

Question Number : 67 Question Id : 88039610747 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The lowest degree of crystal symmetry is shown by

Options :

88039642985. ✗ Hexagonal system

88039642986. ✗ Monoclinic system

88039642987. ✓ Triclinic system

88039642988. ✗ Orthorhombic system

Question Number : 68 Question Id : 88039610748 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which one of the following causes the shadow zone for the S wave ?

Options :

88039642989. ✖ crust-mantle boundary

88039642990. ✔ outer core

88039642991. ✖ lower mantle

88039642992. ✖ crust

Question Number : 69 Question Id : 88039610749 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

What is the maximum number of plane of symmetry found in crystal systems?

Options :

88039642993. ✖ 5

88039642994. ✖ 6

88039642995. ✔ 9

88039642996. ✖ 11

Question Number : 70 Question Id : 88039610750 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Majority of minerals crystallizes in

Options :

88039642997. ✖ Cubic system

88039642998. ✖ Tetragonal system

88039642999. ✖ Orthorhombic system

88039643000. ✔ Monoclinic system

Question Number : 71 Question Id : 88039610751 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Which of the following uses high focused beam of light?

Options :

88039643001. ✔ Lidar

88039643002. ✖ Side-looking radar

88039643003. ✖ Ground penetrating radar

88039643004. ✖ Sonar

Question Number : 72 Question Id : 88039610752 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following classes of positioning technique possess high precision?

Options :

88039643005. ✖ Rigid technique

88039643006. ✖ Real time technique

88039643007. ✖ Viscous technique

88039643008. ✔ Kinematic technique

Question Number : 73 Question Id : 88039610753 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Polar orbiting satellites are placed at an altitude range of

Options :

88039643009. ✖ 7 - 15 km

88039643010. ✖ 7000 - 15000 km

88039643011. ✔ 700 - 1500 km

88039643012. ✖ 70 - 150 km

Question Number : 74 Question Id : 88039610754 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following can act as an example for air-borne platform?

Options :

88039643013. ✖ LISS-III

88039643014. ✔ Dakota

88039643015. ✖ MOS

88039643016. ✖ LISS-II

Question Number : 75 Question Id : 88039610755 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Perspective projection is produced from

Options :

88039643017. ✖ Perpendicular lines radiating a common point

88039643018. ✖ Parallel lines radiating a common point

88039643019. ✖ Straight lines radiating different points

88039643020. ✔ Straight lines radiating a common point

Question Number : 76 Question Id : 88039610756 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which triangle is preferred to obtain good results in plotting?

Options :

88039643021. ✗ Isosceles

88039643022. ✗ Obtuse angle

88039643023. ✓ Equilateral

88039643024. ✗ Acute angle

Question Number : 77 Question Id : 88039610757 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

GIS uses the information from which of the following sources?

Options :

88039643025. ✗ Non- spatial information system

88039643026. ✗ Global information system

88039643027. ✗ Position information system

88039643028. ✓ Spatial information system

Question Number : 78 Question Id : 88039610758 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Which of the following is not a principle of Remote Sensing?

Options :

88039643029. ✖ Interaction of energy with atmosphere

88039643030. ✖ Electro-magnetic spectrum

88039643031. ✖ Electromagnetic energy

88039643032. ✔ Interaction of energy with satellite

Question Number : 79 Question Id : 88039610759 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Pseudo ranging is used to

Options :

88039643033. ✖ Compute the distance between satellite and user

88039643034. ✔ Compute the distance between GPS antenna and satellite

88039643035. ✖ Compute the distance between GPS antenna and user

88039643036. ✖ Compute the distance between satellite and object

Question Number : 80 Question Id : 88039610760 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Isogonic lines refer to

Options :

88039643037. ✔ equal declination values

88039643038. ✖ equal inclination values

88039643039. ✖ zero inclination values

88039643040. ✖ equal total magnetic field strength

Question Number : 81 Question Id : 88039610761 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The Richter scale is used to measure an earthquake in terms of

Options :

88039643041. ✔ magnitude

88039643042. ✖ location

88039643043. ✖ duration

88039643044. ✖ depth

Question Number : 82 Question Id : 88039610762 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In which type of map projection the entire earth surface is divided into zones?

Options :

88039643045. ✖ Poly conic projection system

88039643046. ✖ Cylindrical projection

88039643047. ✖ Lambert- Azimuthal equal area projection

88039643048. ✔ UTM projection

Question Number : 83 Question Id : 88039610763 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The lateral distance of an object or ground feature measured from a survey line is called

Options :

88039643049. ✔ Offset

88039643050. ✖ Perpendicular distance

88039643051. ✖ Side distance

88039643052. ✖ Perpendicular offset

Question Number : 84 Question Id : 88039610764 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which of the following refers to an instrument error?

Options :

88039643053. ✖ mistakes in recording

88039643054. ✖ mistake in rod handling

88039643055. ✔ error due to sluggish bubble

88039643056. ✖ earth's curvature

Question Number : 85 Question Id : 88039610765 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

If 'v' is acoustic velocity and 'd' is density, the acoustic impedance is defined as

Options :

88039643057. ✖ v / d

88039643058. ✔ $v * d$

88039643059. ✖ $v - d$

88039643060. ✖ $v + d$

Question Number : 86 Question Id : 88039610766 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

Upright fold is a

Options :

88039643061. ✔ Symmetrical fold

88039643062. ✖ Asymmetrical fold

88039643063. ✖ Overtured fold

88039643064. ✖ Isoclinal fold

Question Number : 87 Question Id : 88039610767 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The water stored in the soil in the form of hydrated oxides of Iron, Silicon, and Aluminium is

Options :

88039643065. ✖ Gravitational water

88039643066. ✖ Capillary water

88039643067. ✖ Hygroscopic water

88039643068. ✔ Chemically bound water

Question Number : 88 Question Id : 88039610768 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Intensity of rainfall is assessed by

Options :

88039643069. ✖ Anemometer

88039643070. ✖ Hydrometer

88039643071. ✔ Continuously recording rain gauge

Question Number : 89 Question Id : 88039610769 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Unit hydrograph is helpful in

Options :

88039643073. ✔ Estimating runoff from a basin

88039643074. ✖ Estimating no of days of rain fall

88039643075. ✖ Knowing the draught months in a year

88039643076. ✖ In deciding the land for the establishment of hydel power plant

Question Number : 90 Question Id : 88039610770 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

According to the Clairaut's theorem, the sum of geometric and gravitational flattenings is equal to

Options :

88039643077. ✔ 2.5 times the ratio of centrifugal force to gravity at the equator

88039643078. ✖ 1.5 times the ratio of centrifugal force to gravity at the equator

88039643079. ✖ 10 times the ratio of centrifugal force to gravity at the equator

88039643080. ✖ one

Question Number : 91 Question Id : 88039610771 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The maximum force expressed per unit area, which a stone can withstand without rupturing is known as

Options :

- 88039643081. ✖ Shear strength
- 88039643082. ✖ Tensile strength
- 88039643083. ✔ Compressive strength
- 88039643084. ✖ Bending strength

Question Number : 92 Question Id : 88039610772 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which one of the following doesn't determine the capability of GIS?

Options :

- 88039643085. ✖ Defining a map
- 88039643086. ✖ Representing cartographic feature
- 88039643087. ✖ Retrieving data

88039643088. ✓ Transferring data

Question Number : 93 Question Id : 88039610773 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In which of the following fold types, the fold limbs lie exactly one over the other?

Options :

88039643089. ✗ Isoclinal

88039643090. ✓ Recumbent

88039643091. ✗ Symmetrical

88039643092. ✗ Asymmetrical

Question Number : 94 Question Id : 88039610774 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

A deep, long and wide trough or basin with very steep concave high walls at its heads as well as its side is known as

Options :

88039643093. ✗ Esker

88039643094. ✓ Cirque

88039643095. ✗ Glacial valley

88039643096. ✖ Lateral moraine

Question Number : 95 Question Id : 88039610775 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

As waves approach a beach, the rows of waves gradually bend to a direction more parallel to the shore. This change in direction is called

Options :

88039643097. ✔ wave refraction

88039643098. ✖ tidal surge

88039643099. ✖ swash

88039643100. ✖ long shore drift

Question Number : 96 Question Id : 88039610776 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Deep valleys eroded into the continental slope and shelf are called as

Options :

88039643101. ✖ ocean trenches

88039643102. ✔ submarine canyons

88039643103. ✖ estuaries

88039643104. ✖ abyssal valleys

Question Number : 97 Question Id : 88039610777 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Most volcanic activity on the seafloor takes place on

Options :

88039643105. ✖ continental shelves

88039643106. ✔ mid ocean ridges

88039643107. ✖ continental rise

88039643108. ✖ abyssal plains

Question Number : 98 Question Id : 88039610778 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

The reflectance from a surface is called specular reflection if it follows

Options :

88039643109. ✖ Newton's law

88039643110. ✔ Snell's law

88039643111. ✖ Lambert's cosine law

88039643112. ✖ Planktan's law

Question Number : 99 Question Id : 88039610779 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The paleomagnetism is so important in discovering plate tectonics, as

Options :

88039643113. ✖ It allows measurement of mountain building rates

88039643114. ✔ It illustrates sea floor spreading

88039643115. ✖ It illustrates the location of the North Pole

88039643116. ✖ It allows the depth of the oceans to be measured

Question Number : 100 Question Id : 88039610780 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The theory, which explains the continental drift, sea-floor spreading with the build-up of mountains and Oceans is

Options :

88039643117. ✔ Plate tectonics

88039643118. ✖ Rock cycle

88039643119. ✖ Isostasy

88039643120. ✖ Denudation

Question Number : 101 Question Id : 88039610781 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The surface manifestation of displacement along the fault is termed as

Options :

88039643121. ✖ Fault plane

88039643122. ✖ Fractures

88039643123. ✔ Fault scraps

88039643124. ✖ Normal faults

Question Number : 102 Question Id : 88039610782 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical
Correct Marks : 1 Wrong Marks : 0

The sea bed sloping gradually and bordering the continent is known as

Options :

88039643125. ✖ Coast

88039643126. ✖ Continental slope

88039643127. ✔ Continental platform

88039643128. ✖ Continental Shelf

Question Number : 103 Question Id : 88039610783 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is
Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Match list I to list II and select the correct answer using the codes given below

List I**List II**

- | | |
|-------------|---------------------------|
| A. Feldspar | I. No cleavage |
| B. Gypsum | II. Hardness |
| C. Mica | III. Foliated |
| D. Limonite | IV. Readily soak in water |

Options :

88039643129. ✗ A-I, B-IV, C-III, D-II

88039643130. ✗ A-I, B-IV, C-II, D-III

88039643131. ✗ A-IV, B-II, C-III, D-I

88039643132. ✓ A-II, B-IV, C-III, D-I

Question Number : 104 Question Id : 88039610784 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Metallic minerals belong to which category with respect to colour?

Options :

88039643133. ✓ Idiochromatic

88039643134. ✗ Pseudo chromatic

88039643135. ✗ Allochromatic

88039643136. ✖ Iridescence

Question Number : 105 Question Id : 88039610785 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Which survey is carried out to show natural features such as rivers, hills etc.,

Options :

88039643137. ✖ Route surveying

88039643138. ✖ Engineering surveying

88039643139. ✔ Topographic surveying

88039643140. ✖ Cadastral surveying

Question Number : 106 Question Id : 88039610786 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Example of an obstacle to both chaining and ranging

Options :

88039643141. ✖ Hill

88039643142. ✔ Tall building

88039643143. ✖ Pond

88039643144. ✖ River

Question Number : 107 Question Id : 88039610787 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical****Correct Marks : 1 Wrong Marks : 0**

If R.L of a bench mark is 100.00 m, the back sight is 1.215 m and foresight is 1.870 m, the R.L of the forward station is

Options :

88039643145. ✖ 101.00 m

88039643146. ✔ 99.345 m

88039643147. ✖ 100.345 m

88039643148. ✖ 101.87 m

Question Number : 108 Question Id : 88039610788 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is**Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical****Correct Marks : 1 Wrong Marks : 0**

Scale of vertical photograph is given by

Where f = focal length of camera, H = Height of exposure station above MSL,

h = height of ground above MSL.

Options :88039643149. ✖ $\frac{f}{H}$

88039643150. ✖ $\frac{f}{H+h}$

88039643151. ✖ $\frac{h}{H-f}$

88039643152. ✔ $\frac{f}{H-h}$

Question Number : 109 Question Id : 88039610789 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Lysimeter is an instrument used to measure

Options :

88039643153. ✖ Evaporation

88039643154. ✖ Transpiration

88039643155. ✔ Evapotranspiration

88039643156. ✖ Infiltration

Question Number : 110 Question Id : 88039610790 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Penman's equation is used to determine

Options :

88039643157. ✓ Evapotranspiration

88039643158. ✗ Infiltration

88039643159. ✗ Runoff

88039643160. ✗ Rainfall

Question Number : 111 Question Id : 88039610791 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Isopleths are the line joining places having

Options :

88039643161. ✗ Equal depths of rainfall

88039643162. ✗ Equal magnitude of wind velocity

88039643163. ✓ Equal depths of evapotranspiration

88039643164. ✗ Equal depths of runoffs

Question Number : 112 Question Id : 88039610792 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Potential evapotranspiration is

Options :

88039643165. ✗ the evapotranspiration of a forest area

88039643166. ✓ The evapotranspiration when there is sufficient moisture available to a fully vegetated area

88039643167. ✗ Actual evapotranspiration of a crop before application of irrigation water

88039643168. ✗ Amount of water needed to bring the water content to its field capacity

Question Number : 113 Question Id : 88039610793 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Eutrophication is caused by

Options :

88039643169. ✗ Plastic

88039643170. ✓ Nitrogen and phosphorus

88039643171. ✗ Nuclear waste

88039643172. ✗ Coal

Question Number : 114 Question Id : 88039610794 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

The ratio of the shear strength of the soil in the undisturbed state to that of soil in remoulded state is known as

Options :

88039643173. ✗ Degree of density

88039643174. ✖ Degree of compaction

88039643175. ✖ Degree of disturbance

88039643176. ✔ Degree of sensitivity

Question Number : 115 Question Id : 88039610795 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

In a soil mass, if the volume of voids is equal to volume of solids, then values of void ratio and porosity are

Options :

88039643177. ✔ 1, 0.5

88039643178. ✖ 1, 1

88039643179. ✖ 0.5, 1.5

88039643180. ✖ 1.5, 1

Question Number : 116 Question Id : 88039610796 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical Correct Marks : 1 Wrong Marks : 0

Critical hydraulic gradient ' i_c ' of the soil mass of specific gravity ' G ' and void ratio ' e ' is given by

Options :

88039643181. ✖ $i_c = \frac{G+1}{1-e}$

88039643182. ✖ $i_c = \frac{G-1}{1-e}$

88039643183. ✖ $i_c = \frac{G+1}{1+e}$

88039643184. ✔ $i_c = \frac{G-1}{1+e}$

Question Number : 117 Question Id : 88039610797 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

If the porosity of a soil is 20 percent, its void ratio is

Options :

88039643185. ✖ 0.15

88039643186. ✔ 0.25

88039643187. ✖ 0.2

88039643188. ✖ 0.8

Question Number : 118 Question Id : 88039610798 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Select the following correct statement

88039643189. ✖ Greater the viscosity, is the greater permeability

88039643190. ✔ Greater the unit weight, is the greater permeability

88039643191. ✖ Greater the unit weight, smaller is the permeability

88039643192. ✖ Unit weight does not affect permeability

Question Number : 119 Question Id : 88039610799 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

With an increase in the thickness of the diffused double layer, the permeability

Options :

88039643193. ✖ Increases linearly

88039643194. ✔ Decreases

88039643195. ✖ Makes no change

88039643196. ✖ Increase exponentially

Question Number : 120 Question Id : 88039610800 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is

Question Mandatory : No Single Line Question Option : No Option Orientation : Vertical

Correct Marks : 1 Wrong Marks : 0

Textural classification is most suitable for

Options :

88039643197. ✖ Moist soil

88039643198. ✓ Coarse grained soil

88039643199. ✗ Clay soil

88039643200. ✗ Wet soil

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