

Telangana State Council Higher Education

Notations :

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

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

Question Paper Name :	Geo Engineering and Geo Informatics
Subject Name :	2022-08-0215:45:0
Creation Date :	120
Duration :	120
Total Marks :	Yes
Display Marks:	None
Calculator :	No
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? :	No
Highlighter :	Yes
Auto Save on Console?	No
Change Font Color :	Yes
Change Background Color :	No
Change Theme :	No
Help Button :	No
Show Reports :	No
Geo Engineering and Geo Informatics 2nd Aug 2022 Shift I	No
	No
Show Progress Bar :	No

Geo Engineering and Geo Informatics

Group Number :

Group Id :

34058039

Group Maximum Duration :

Group Minimum Duration :	120
Show Attended Group? :	No
Edit Attended Group? :	No
Break time :	
Group Marks :	120
Is this Group for Examiner? :	No
Examiner permission :	Cant View
Show Progress Bar? :	No

Mathematics

Section Id :	34058071
Section Number :	1
Section type :	Online
Mandatory or Optional :	Mandatory
Number of Questions :	10
Number of Questions to be attempted :	10
Section Marks :	10
Enable Mark as Answered Mark for Review and	Yes
Clear Response :	
Maximum Instruction Time :	
Sub-Section Number :	1
Sub-Section Id :	34058071
Question Shuffling Allowed :	Yes

Question Number : 1 Question Id : 3405804561 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 3

Correct Marks : 1 Wrong Marks : 3

The sum of eigen values of the matrix- $\begin{bmatrix} 1 & -1 & 1 \\ -1 & 1 & -1 \end{bmatrix}$ is

Options :

34058018241. -1

34058018242. 1

34058018243. ∞ 2

34058018244.

Question Number : 2 Question Id : 3405804562 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The number of solutions of the system : $x + 2y + z = 0, 2x + 3y - z = 2$

$$x + 2y + 3z = -2, x + y + z = 1 \text{ is}$$

Options :

34058018245.

34058018246. 1

34058018247. 2

34058018248. ∞ ∞

Question Number : 3 Question Id : 3405804563 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The number of independent rows in the matrix

$$\begin{bmatrix} 1 & 15 & -2 & -3 & 1 \\ 0 & 4 & 2 & 1 & \\ -1 & 2 & 3 & 1 & 2 & -1 \\ 1 & 6 & 5 & 2 & \\ -1 & & & & \end{bmatrix} 0$$

Options :

34058018249. ✖ 1

34058018250. ✔ 2

34058018251. ✖ 3

34058018252. ✖ 4

Question Number : 4 Question Id : 3405804564 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If C is the ellipse $\frac{x^2}{9} + \frac{y^2}{4} = 1$ then $\int_C x dy - y dx =$

Options :

34058018253. 47t

34058018254. 6m

34058018255. 127t

34058018256. 77t

Question Number : 5 Question Id .• 3405804565 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The maximum off $f(x, y) = 4 + 2x - 3y - x + xy - Y^2$ IS

Options :

20

34058018257. ' 3

34058018258. 8 7

19

34058018259M 3

34058018260. 6

Question Number : 6 Question Id : 3405804566 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

$\int x y + x y y dx =$

-1-1

Options :

34058018261. 3

34058018262. 2

34058018263. 1

34058018264.

Question Number : 7 Question Id : 3405804567 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

$$\int_{|z|=1} \frac{\sin z}{z} dz$$

2022

2m $|z|=1$ z

Options :

$$\frac{1}{2}$$

34058018265.

$$\frac{1}{(2021)!}$$

34058018266.

$$(2020)!$$

$$\frac{1}{8 (2022)!}$$

34058018267.

$$1$$

34058018268. ✖ (2019)!

Question Number : 8 Question Id : 3405804568 Question Type : MCQ Option Shuffling : Yes
 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
 Correct Marks : 1 Wrong Marks : 0

$$\int \frac{dz}{(z-1)^3}$$

Options :
 34058018269. 0

34058018270. $-\frac{1}{2}i$

34058018271. $-\frac{1}{2}i$

34058018272. $\frac{1}{2}i$

Question Number : 9 Question Id : 3405804569 Question Type : MCQ Option Shuffling : Yes
 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
 Correct Marks : 1 Wrong Marks : 0

Let S be the set of all positive divisors of 18900. If an element is drawn from S at random, then the probability that it is a prime, is

Options :
 34058018273. $\frac{1}{9}$

34058018274. $\frac{1}{18}$

34058018275. $\frac{1}{27}$

34058018276. 1
6

Question Number : 10 Question Id : 3405804570 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the mean and mode of a discrete data are 15 and 14 respectively, then the median is

Options :

19.4

34058018277.

34058018278. 19.6

34058018279. 8 19.8

34058018280. 20

Geo Engineering and Geo Informatics

Section Id : 34058072

Section Number : 2

Section type : Online

Mandatory or Optional : Mandatory

Number of Questions : 110

Number of Questions to be attempted : 110

Section Marks : 110

Enable Mark as Answered Mark for Review and Yes

Clear Response :

Maximum Instruction Time :

Sub-Section Number : 1

Sub-Section Id : 34058072

Question Shuffling Allowed : Yes

Question Number : 11 Question Id : 3405804571 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following rocks indicate highest grade of metamorphism

Options :

34058018281. C11101ite schist

34058018282. 8 Homblende gneiss

34058018283. Slate

Granulite

34058018284.

Question Number : 12 Question Id : 3405804572 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

K-T boundary signifies

34058018285. Extinction of dinosaurs

Presence of dinosaurs

34058018286.

Extinction of brachiopod

34058018287. ✖

✖ Exists close to the Mohorovicic discontinuity 34058018288.

Question Number : 13 Question Id : 3405804573 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the geological era is the youngest in the geologic time scale

Options :

Precambrian

34058018289.

34058018290. 8 Mesozoic

34058018291. Paleozoic

34058018292. Cenozoic

Question Number : 14 Question Id : 3405804574 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The parameter always increases with depth in the ocean is

Options :

34058018293. ✖ Temperature

34058018294. Salinity

34058018295. Density

34058018296. Oxygen content

Question Number : 15 Question Id : 3405804575 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Variation of the acceleration due to gravity (g) on the Earth with latitude is

such that

Options :

34058018297. ✖ g is the same at all latitudes

34058018298. ✓ g increases with latitude

g decreases with latitude

34058018299.

34058018300. ✖ g decreases with longitude only

Question Number : 16 Question Id : 3405804576 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : O

Correct Marks : 1 Wrong Marks : 0

The true shape of the Earth is best described by a

34058018301. Perfect sphere

Perfect ellipse

34058018302.

34058018303. Slightly oblate sphere

Circle

34058018304.

Question Number : 17 Question Id : 3405804577 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Metamorphic type of mylonite

Options :

34058018305. Regional metamorphism

34058018306. Contact metamorphism

Dynamic metamorphism

34058018307.

34058018308. Large scale metamorphism

Question Number : 18 Question Id : 3405804578 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Which factor affects recrystallization most

Options :

34058018309. Pressure

34058018310. Temperature

34058018311. Liquid with chemical fluid

34058018312. 8 Oxygen

Question Number : 19 Question Id : 3405804579 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0 Dilling which era did tile initial opening of the present-day Atlantic Ocean

most likely occur

Options :

34058018313. Pre-cambrian

34058018314. Mesozoic

34058018315. Paleozoic

34058018316. Late Proterozoic

Question Number : 20 Question Id : 3405804580 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The geological time span of Neogene is

34058018317. 8 65-55 m.y

34058018318. 8 55-33 m.y

34058018319. 8 24-1.8 m.y

34058018320. 8 1.8-0 m.y

Question Number : 21 Question Id : 3405804581 Question Type : MCQ Option Shuffling

: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None

Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

By applying a force if the shape of a body is distorted. then the

corresponding stress is known as

Options :

34058018321. s: Tensile stress

34058018322. 8 Bulk stress

34058018323. 8 Shear stress

34058018324. 8 Compressive stress

Question Number : 22 Question Id : 3405804582 Question Type : MCQ Option Shuffling

: Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Perched water table lies

Options :

34058018325. Above water table

Below water table

34058018326.

34058018327. 8 At the same level as water table

34058018328. 8 At an angle to water table

Question Number : 23 Question Id : 3405804583 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

At transform plate boundaries

Options :

34058018329. Two plates slip horizontally past each other

Two ☒ plates move in opposite directions toward each other 34058018330.

☒ Two plates move in opposite directions away from each other

34058018331.

Two plates are subducted beneath each other

34058018332. 8

Question Number : 24 Question Id : 3405804584 Question Type : MCQ Option Shuffling : Yes
Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

A subduction zone is most likely occurring at a

Options :

34058018333. Translational plate boundary

Divergent plate boundary
34058018334.

Convergent plate boundary
34058018335.

Transform plate boundary
34058018336. 8

Question Number : 25 Question Id : 3405804585 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Steep slope facing the sea is called

Options :

Cliff
34058018337.

Inselberg
34058018338.

34058018339. 8 Canyon

34058018340. Mountain

Question Number : 26 Question Id : 3405804586 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A typical rate of plate motion is

Options :

34058018341. 3 - 10 centimeters per year

I - 18 meters per year

34058018342.

I kilometer per year

34058018343. 8

1,000 kilometers per year

34058018344.

Question Number : 27 Question Id : 3405804587 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Rock form that appears like a Mushroom eroded by wind blown sand

Options :

34058018345. Canyon

Gorge

34058018346.

Isthmus

34058018347. 8

Zeugens

34058018348.

Question Number : 28 Question Id : 3405804588 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time
: N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0
Muscovite is

Options :

34058018349. A double chain silicate

34058018350. A sheet silicate

A framework silicate

34058018351.

A single chain silicate

34058018352. 8

Question Number : 29 Question Id : 3405804589 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time
: N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Natural levees are typical depositional land forms of

Options :

34058018353. Winds

Rivers

34058018354.

Block mountains

34058018355. 8

Glaciers

34058018356.

30

Yes

Correct Marks : 1 Wrong Marks : 0

Erosional land forms are associated with

Options :

Deltas

34058018357.

Alluvial fans

34058018358.

34058018359. 8 Subduction zones

Valleys

34058018360.

Question Number : 31 Question Id : 3405804591 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A river breakups into streams before joins the seas and oceans is called as

Options :

Deltas

34058018361.

34058018362. Estuaries

34058018363. Tlibutalies

Distlibutalies

34058018364.

Correct Marks : 1 Wrong Marks : 0

Question Number : 32 Question Id : 3405804592 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Continental shelf and ocean basins are connected by

Options :

34058018365. Mid-oceanic ridges

Sea mounts

34058018366.

34058018367. Continental slope

34058018368. Continental rise

Question Number : 33 Question Id : 3405804593 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In which hemisphere the Coriolis effect causes the surface currents to turn anticlockwise

Options :

34058018369. Southern Hemisphere

Western Hemisphere

34058018370.

Eastern Hemisphere

34058018371.

Correct Marks : 1 Wrong Marks : 0

✖ Northern Hemisphere

34058018372.

34

Yes

The number of points the plane touches the globe in azimuthal projection

Options :

34058018373. One

Three

34058018374. ✖

Two

34058018375.

34058018376. 8 Four

Question Number : 35 Question Id : 3405804595 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The average density of the earth is

Options :

34058018377. ✖ 2.67 g/cm^3

5.5 g/cm^3

34058018378.

Correct Marks : 1 Wrong Marks : 0

34058018379. 8 12.1 g/cm³

34058018380. 8 6.5 g/cm³

Question Number : 36 Question Id : 3405804596 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Tectonic force responsible for sliding of two blocks past each other horizontally is

Options :

34058018381. Compressive force

34058018382. Shearing force

34058018383. Tensional force

34058018384. Gravity force

Question Number : 37 Question Id : 3405804597 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Structures associated with transform plate boundaries are

Options :

34058018385. Unconformities

34058018386. Folds

Faults

Question Number : Question Id : 3405804590 Question Type : MCQ Option Shuffling :

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

34058018387.

Salt domes

34058018388.

38

Yes

Shearing forces produce

Options :

Normal faults

34058018389.

Reverse faults

34058018390. 8

Mountain ❌ building 34058018391.

Strike-slip faults

34058018392.

Question Number : 39 Question Id : 3405804599 Question Type : MCQ Option Shuffling

: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None

Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The fold axis of a plunging fold is

Options :

Horizontal

34058018393. 8

❌ Always vertical

Correct Marks : 1 Wrong Marks : 0

34058018394.

Inclined

34058018395.

✘ Non-existing

34058018396.

Question Number : 40 Question Id : 3405804600 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time
: N.A Think Time : N.A Minimum Instruction Time : 0

Mural joints developed in

Options : s: Sandstones

34058018397.

Dolomites

34058018398.

34058018399. Granites

Shales

34058018400.

Question Number : 41 Question Id : 3405804601 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time
: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which type of drainage pattern develops in gneissic terrain

Options :

34058018401. 8 Parallel

Correct Marks : 1 Wrong Marks : 0

Dendritic

34058018402.

Radial

34058018403.

✖ Rectangular

34058018404.

Question Number : 42 Question Id : 3405804602 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

Which of the following statement is correct in flexural folding

Options :

34058018405. Thicker the layers greater is the slip

Thicker the layers lesser is the slip

34058018406.

Thinner the layers greater is the slip

34058018407.

Thinner the layers lesser is the slip

34058018408.

Question Number : 43 Question Id : 3405804603 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The Miller symbol of the top face of a cube is represented by

Options :

34058018409. 8 (100)

34058018410. 8 (010)

34058018411. (001)

34058018412. (111)

Question Number : 44 Question Id : 3405804604 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The law of superposition helps to determine

Options :

34058018413. The relative age of rocks

The absolute age of rocks

34058018414.

8 The composition of rocks

34058018415.

The structural aspects of rocks

34058018416.

Question Number : 45 Question Id : 3405804605 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Radial joints are

Options :

34058018417. Parallel to the bedding plane

34058018418. Parallel to hinge line

34058018419. Perpendicular to hinge line

34058018420. Oblique to hinge line

Question Number : 46 Question Id : 3405804606 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Trellis drainage generally develops in

Options :

Granitic terrain

34058018421.

Basaltic terrain

34058018422.

✘ Metamorphic terrain

34058018423.

✔ Sedimentary terrain 34058018424.

Question Number : 47 Question Id : 3405804607 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Considering the earth as a solid sphere rotating on its axis with an angular velocity 'ω'. If 'R' is the radius of the earth, then the difference in net gravity effect between the poles and equator is

Options :

2

34058018425.

34058018426. 8

34058018427.

34058018428.

Question Number : 48 Question Id : 3405804608 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

If 'I' and 'R' represent induced and remnant magnetizations in a rock sample, then the

Koeneigsberger ratio is

Options : a I-R
34058018429.

34058018430.

34058018431.

34058018432.

Question Number : 49 Question Id : 3405804609 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

The horizontal component of the Earth's magnetic field is directed towards

Options :

Magnetic north

34058018433.

⌘ Geographic north 34058018434.

34058018435. ✖ Geographic south

34058018436. 8 East

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0
50

N.A

If the length of a linear conductor is reduced by half, then its resistivity

Options :

34058018437. Doubled

Decreased by half

34058018438. 8

Remains the same

34058018439.

Increased by four times

34058018440. s:

Question Number : 51 Question Id : 3405804611 Question Type : MCQ Option Shuffling
: Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response
Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes IS Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Paramagnetic substances have

Options :

34058018441. Small positive susceptibilities

34058018442. 8 Small negative susceptibilities

34058018443. ✖ Very high positive susceptibilities

34058018444. ✖ Zero susceptibility

Question Number : 52

:

Display Question

: N.A Think Time : N.A

Correct Marks : 1 Wrong

Highest degree of crystal symmetry is shown by

Options :

34058018445. s: Tetragonal system

Cubic system

34058018446.

✖ Monoclinic system

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0
34058018447.

✘ Triclinic
system

34058018448.

Question Number : 53 Question Id : 3405804613 Question Type : MCQ Option Shuffling
: Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response
Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Stishovite is a polymorph of

Options :

34058018449. 8 Olivine

34058018450. Gamet

Zeolite

34058018451.

Quartz

34058018452.

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0
54

N.A

Crenulation cleavage develops during

Options :

34058018453. s: Thmsting

34058018454. 8 Rifting

34058018455. ✓ Superimposed deformation

34058018456. s: Extension

Question Number : 55 Question Id : 3405804615 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The acceleration due to gravity calculated by Clairaut's theorem is valid for

Options :

Question Number : Question Id :

3405804610 Question Type : MCQ

Option Shuffling : Yes

Display Question Number : Yes Is

Question Mandatory : No

Calculator : None Response Time

: N.A Think Time : Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks :

0

34058018457. 8 Geoid surface

34058018458. ✓ Spheroid
surface

34058018459. 8 Earth 's topography

34058018460. Circle

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0
56

N.A

Loess corresponds to

Options :

34058018461. Eolian deposits

34058018462. Braided river flood plain

Alluvial fan

34058018463.

34058018464. Lake deposits

Question Number : 57 Question Id : 3405804617 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The average salinity of seawater is about

Options :

34058018465. 3.5 psu

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes IS Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

34058018466. ✖ 0.35 psu

34058018467. ✔ 35.5 psu

3.5 psu
34058018468.

58

N.A

Specific yield of unconfined aquifer indicates

Options :

34058018469. Water capacity

Volume of water
34058018470.

Water retained
34058018471.

✖ Nature of cementing material
34058018472.

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Question Number : 59 Question Id : 3405804619 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Lellman discontinuity is located at a depth of

Options :

34058018473. 120 km

690 km 34058018474.

240 km
34058018475.

410 km
34058018476.

60

N.A

Wadati diagram is useful to find out

Options :

34058018477. s: Velocity of the seismic waves

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Ol'lgm tne of an ealthquake

34058018478.

34058018479. The anival time of the seismic waves

The epicentral distance

34058018480.

Question Number : 61 Question Id : 3405804621 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks :

The unit of resistivity is

Options :

34058018481. Ohm

34058018482. s: Mohs

Ohm.m

34058018483.

34058018484. Ohm/m

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes IS Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Question Number : 62 Question Id : 3405804622 Question Type : MCQ Option Shuffling
: Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The asthenosphere is

Options : s: Cool and strong

34058018485.

Cool and weak

34058018486.

34058018487. 8 and strong

Hot

Hot and weak

34058018488.

Question Number : 63 Question Id : 3405804623 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The outer planets are composed mostly of

Options :

34058018489. ✖ Rocks and ice

✖ Oxygen and nitrogen

34058018490.

34058018491. Hydrogen and helium

Helium and laypton

34058018492. 8

Question Number : 64 Question Id : 3405804624 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

The temperature within the earth increases with depth at

Options : s: 650C/1an
34058018493.

300c/nan
34058018494.

noocnan
34058018495.

2250c/1an
34058018496.

Question Number : 65 Question Id : 3405804625 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

The mineral Kyanite shows

Options :

Bladed form
34058018497.

Columnar form
34058018498.

34058018499. 8 Sheet form

Tabular form
34058018500.

Question Number : 66 Question Id : 3405804626 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Rocks act as natural arch when the

Options :

34058018501. Tunnel axis parallel to strike direction

Tunnel axis nonnal to dip direction
34058018502.

Tunnel axis inclined to dip direction
34058018503.

Tunnel axis parallel to dip direction
34058018504.

Question Number : 67 Question Id : 3405804627 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Hydropower tunnel where water is conveyed under gravity is

Options :

34058018505. 8 Pressure tunnel

34058018506. Delive1Y tunnel

34058018507. Supply tunnel

34058018508. Discharge tunnel

Question Number : 68 Question Id : 3405804628 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

The capacity of a stone to withstand bending loads is called

Options :

34058018509. 8 Shear strength

Transverse strength

34058018510.

Loading ✖ strength 34058018511.

Torsional strength

34058018512. 8

Question Number : 69 Question Id : 3405804629 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

High grade schist is formed under

Options :

34058018513. 8 Local metamorphism

34058018514. Regional metamorphism

✖ Contact metamorphism

34058018515.

34058018516. Dynamic metamorphism

Question Number : 70 Question Id : 3405804630 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : O

According to Clairaut's theorem the undisturbed gravity field of the earth, g , at any latitude is given by

Options :

$$g(\varphi) = 978.03185(1+0.00530248 \sin^2\varphi - 0.0000059 \sin^2 2\varphi)$$

$$g(\varphi) = 978.03185(1-0.00530248 \sin^2\varphi + 0.0000059 \sin^2 2\varphi)$$

$$g(\varphi) = 978.03185(1+0.00530248 \sin^2\varphi + 0.0000059 \sin^2 2\varphi)$$

$$g(\varphi) = 978.03185(1-0.00530248 \sin^2\varphi + 0.0000059 \sin^2 2\varphi)$$

Question Number : 71 Question Id : 3405804631 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : O

Correct Marks : 1 Wrong Marks : 0

Magnetic meridian is a vertical plane containing

Options :

34058018521. 8 Total magnetic field and its horizontal component

34058018522. 8 Total magnetic field and its vertical component

34058018523. ✓ Total magnetic field and its vertical and horizontal components

34058018524. ✖ Vertical and horizontal components of the total field

Question Number : 72 Question Id : 3405804632 Question Type : MCQ Option Shuffling

: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None

Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The permanent magnetism acquired by igneous rocks during the process of crystallization is called

Options :

34058018525. Natural remanent magnetism

Detrital remanent magnetism

34058018526. 8

Piezomagnetic remanent magnetism 34058018527.

Viscous

34058018528. s: remanent magnetism

Question Number : 73 Question Id : 3405804633 Question Type : MCQ Option Shuffling

: Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which part of the earth's interior ultimately consists of pyroxene and olivine

Options :

Inner core

34058018529.

34058018530. ✓ Upper mantle

34058018531.8 Clust

Outer core

34058018532.8

Question Number : 74 Question Id : 3405804634 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks :

0

D" layer separates

Options :

Inner core and outer core

34058018533.

Upper crust and lower Clust

✘

34058018534.

Transition zone between the continental and oceanic crust

34058018535.

Lower mantle and outer core

34058018536.

Question Number : 75 Question Id : 3405804635 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0 Correct Marks : 1 Wrong Marks : 0

In which direction the particles in a solid material move during the passage of a S wave

Options :

Perpendicular to the direction of propagating wave

34058018537.

To and fro along the direction of propagating wave

34058018538.

Roll along direction of propagating wave

✘
34058018539.

34058018540. s: 450 to the direction of propagating wave

Question Number : 76 Question Id : 3405804636 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the direction of the orbit is the same as the direction of Earth's rotation it is

Called

Options :

Retrograde

34058018541. 8

34058018542. ✘ Perigee

34058018543. ✔ Prograde

34058018544. 8 Apogee

Question Number : 77 Question Id : 3405804637 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The time taken by a satellite to complete one orbit is called

Options :

34058018545. ✔ Sidereal period

34058018546. Lapsed time

s: Frequency

34058018547.

Rotation time

34058018548. 8

Question Number : 78 Question Id : 3405804638 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In the preparation of atlas which type of map projection is used

Options :

34058018549. Poly conic projection system

34058018550. ✖ UTM projection

34058018551. ✔ Lambert- Azimuthal equal area projection

34058018552. 8 Cylindrical projection

Question Number : 79 Question Id : 3405804639 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The first principle of surveying is

Options :

Part to whole

34058018553. 8

34058018554. Whole to part

Whole to whole

34058018555.

Part to part

34058018556. 8

Question Number : 80 Question Id : 3405804640 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Name the instrument which registers total distance covered by any number of

Paces

Options :

Passometer

34058018557.

Pedometer

34058018558.

Odometer

34058018559.

Barometer

34058018560. 8

Question Number : 81 Question Id : 3405804641 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Geoid is

Options :

34058018561. An imaginary equipotential surface that coincides with the mean-sea level

34058018562. An imaginary equipotential surface that coincides with the mountain peaks

34058018563. A surface that replicates the shape of a wave

34058018564. A physical surface coinciding with the topography

Question Number : 82 Question Id : 3405804642 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Keeping the magnetic north as a reference if the angle measured it is called

Options :

34058018565. True bearing

Azimuthal bearing

34058018566. Dip bearing

Dip bearing

34058018567. Magnetic bearing

Magnetic bearing

34058018568. True bearing

Question Number : 83 Question Id : 3405804643 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following is a server-based hardware platform of Geographical Information System (GIS)

Options :

Autodesk Revit
34058018569.

AutoCAD
34058018570. s:

34058018571. 8 Arc GIS

34058018572. ✓Google-maps

Question Number : 84 Question Id : 3405804644 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If magnetic meridian is left side to geographic meridian, then magnetic declination is

Options :

34058018573. ✘ Negative

Zero
34058018574. 8

Positive

34058018575.

0

34058018576. ✖ 180

Question Number : 85 Question Id : 3405804645 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Geographical Information System (GIS) uses

Options :

34058018577. Non- spatial information

34058018578. ✔ Spatial information

34058018579. 8 Global information

Position information

34058018580.

Question Number : 86 Question Id : 3405804646 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Magnetic bearing if the magnetic bearing of a line is given by $S 30^{\circ} 30'$

E and the declination as $4^{\circ} 30'$ west

Options :

34058018581. e $S 35^{\circ} 00'$ E

34058018582. N 35°00' W

S 26° E

34058018583. 8

N 26° W

34058018584.

Question Number : 87 Question Id : 3405804647 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A map that depicts the geographic pattern of a particular subject matter in a geographic area is called

Options :

Thematic map

34058018585.

34058018586. Physical map

Cadastral map

34058018587.

Topographic

34058018588. 8 map

Question Number : 88 Question Id : 3405804648 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In cylindrical projection system, meridians are projected

Options :

Mathematically

34058018589.

Geometrically

34058018590.

Horizontally

34058018591.

Venically

34058018592.

Question Number : 89 Question Id : 3405804649 Question Type : MCQ Option Shuffling

: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None

Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

\Which of the following indicate topological primitive

Options :

34058018593. s: Poly line

Point

34058018594.

Node

34058018595.

Polygon 34058018596.

Question Number : 90 Question Id : 3405804650 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which triangulation system has the least probability of encountering errors

Options :

34058018597. Primary

Secondary

34058018598.

Tertiary

34058018599.

Quaternary

34058018600.

Question Number : 91 Question Id : 3405804651 Question Type : MCQ Option Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : O

Correct Marks : 1 Wrong Marks : O

A modified form of stadia levelling is

Options :

Barometric levelling

34058018601.

34058018602. Trigonometric levelling

Split levelling

34058018603.

34058018604. Traversing

Question Number : 92 Question Id : 3405804652 Question Type : MCQ Option Shuffling

: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None

Response Time

: N.A Think Time : N.A Minimum Instruction Time : O

Correct Marks : 1 Wrong Marks : O

If 'd' is the length of a line and the angle made by it with the y-axis is θ , then

the latitude of the line is

Options :

$d \cos$

34058018605.

$d \sin$

34058018606.

$d \tan$
 $+ \theta$

8

Question Number :

Question Id :

3405804610 Question

Type : MCQ Option

Shuffling : Yes

Display Question

Number : Yes IS

Question Mandatory :

No Calculator : None

Response Time

: N.A Think Time :

Minimum Instruction

Time : 0

Correct Marks : 1

Wrong Marks : 0

34058018607.

34058018608. $d \operatorname{cosec}^{\circ}$

93

N.A

Which type of signals are generated by satellites

Options :

34058018609. ✖ Visible rays

Radio waves

34058018610.

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

✳ X-rays

34058018611.

Cosmic waves

34058018612. s:

Question Number : 94 Question Id : 3405804654 Question Type : MCQ Option Shuffling
: Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response
Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which of the following indicates the correct set of GPS segments

Options :

Navigation, space

34058018613.

User, navigation

34058018614.

Control, user

34058018615.

34058018616. Control, navigation

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0
N.A

While doing levelling, which one of the following is a natural error

Options :

34058018617. ✖ Error due to defective joint

✖ Rod is of not standard length
34058018618.

Error due to sluggish bubble
34058018619. 8

Variations in temperature
34058018620.

Question Number : 96 Question Id : 3405804656 Question Type : MCQ Option Shuffling
: Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which parameter is mainly used in pseudo ranging

Options :

34058018621. Time

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes IS Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0
34058018622. Distance

34058018623. ✖ Velocity

34058018624. Frequency

97

N.A

In visible range of electromagnetic spectmm, what is the wavelength
range of blue light

Options :

0.42-0.52 micrometer
34058018625.

0.24-0.52 micrometer
34058018626.

0.42-0.92 micrometer
34058018627.

0.22-0.32 micrometer
34058018628. 8

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling :
Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None
Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Question Number : 98 Question Id : 3405804658 Question Type : MCQ Option Shuffling
: Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response
Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Altitude range of sun-synchronous satellites is

Options :

7-15 1011

34058018629.

✘ 7000-15000 km

34058018630.

700-1500 km

34058018631.

70-150 km

34058018632.

99

N.A

If u is the Stefan- Boltzmann constant, T is the thermodynamic temperature,
and M is the spectral radiance of the body then Stefan- Boltzmann formula is
given by

Question Number : Question Id : 3405804610 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Options :

✘ $M = \alpha / T^4$

34058018633.

$M = u - T^4$

34058018634.

8 $M = u + T^4$

34058018635.

34058018636. ✔ $M = \alpha * T^4$

Question Number : 100 Question Id : 3405804660 Question Type : MCQ Option Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Carbon dioxide is called greenhouse gas because

Options :

34058018637. It absorbs heat

It absorbs moisture 34058018638.

✘ It

Question Number : Question Id :

3405804610 Question Type : MCQ

Option Shuffling : Yes

Display Question Number : Yes Is

Question Mandatory : No

Calculator : None Response Time

: N.A Think Time : Minimum

Instruction Time : 0

Correct Marks : 1 Wrong Marks :

0

34058018639.absorbs oxygen

34058018640. 8 It absorbs hydrogen

Question Number : 101 Question Id : 3405804661 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If environmental lapse rate is less is than adiabatic lapse rate, then

Options :

34058018641. 8 Super adiabatic lapse rate occurs

34058018642. 8 Neutral lapse rate occurs

Adiabatic lapse rate occurs

34058018643.

Sub adiabatic lapse rate occurs

34058018644.

Question Number : 102 Question Id : 3405804662 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Detrivores are also called

Options :

34058018645. Omnivores

Herbivores

34058018646.

34058018647. ✓Decomposers

Camivores

Question Number : 103 Question Id : 3405804663 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the wave length of EM wave is 54m what is its energy

(Take Plank's constant as 6.625×10^{-34} J.s.)

Options :

34058018649. 0.36×10^{26}

34058018650. 1073.2×10^{26}

34058018651. 0.48×10^{26}

34058018652. 54×10^{26}

Question Number : 104 Question Id : 3405804664 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

A large number of interlinked chains in an ecosystem together forms

Options :

34058018653. ✖ Nitrogen cycle

34058018654. 8 Carbon cycle

Food web

34058018655.

34058018656. Food chain

Question Number : 105 Question Id : 3405804665 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

If the wave length of an EM wave decreases, the energy released will

Options :

34058018657. Increase

34058018658. Decrease

Remain same

34058018659.

34058018660. 8 Zero

Question Number : 106 Question Id : 3405804666 Question Type : MCQ Option

Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Type of forests grow in Himalayan region

Options :

34058018661. Broad-leaved

Coniferous

34058018662.

s: Deciduous

34058018664. ❖ Cactus

Question Number : 107 Question Id : 3405804667 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Soil pollution arises mainly due to

Options :

34058018665. ❖ Ozone

Depletion of oxygen

34058018666. 8

Aerosol

34058018667. 8

Acid rain

34058018668.

Question Number : 108 Question Id : 3405804668 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : O
Correct Marks : 1 Wrong Marks : O What

percentage of Argon present in the atmosphere

Options :

34058018669. ✖ 78%

0.9%

34058018670.

34058018671. ' /

21%

34058018672. 8

Question Number : 109 Question Id : 3405804669 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response
Time

: N.A Think Time : N.A Minimum Instruction Time : O

Correct Marks : 1 Wrong Marks : O

The tenn 'Regur' is used to describe

Options :

34058018673. Lateritic soil

Black cotton soil

34058018674.

Red soil

34058018675.

Alluvial soil

34058018676.

Question Number : 110 Question Id : 3405804670 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In which type the soil is loosely packed and with large air spaces

Options :

34058018677. 8 Clayey soil

Black cotton soil

34058018678.

Sandy soil

34058018680. Loamy soil

Question Number : 111 Question Id : 3405804671 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Consider the shape of the earth as a solid sphere. Then the gravity potential at its centre is

Options :

34058018681. 1.5 times the potential at the surface

Zero

34058018682.

Equal to the potential at the surface

34058018683.

∞ Infinity

34058018684.

Question Number : 112 Question Id : 3405804672 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The block which lies on the under surface of a fault plane is called

Options :

34058018685. ✖ Hanging wall

34058018648.

s: Side wall

Under wall

34058018687.

Foot wall

34058018688.

Question Number : 113 Question Id : 3405804673 Question Type : MCQ Option
Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator :
None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

The nature of displacement in a shear zone is

Options :

Ductile

34058018689.

Brittle

34058018690.

Malleable

34058018691.

34058018692. 8 Sonorous

Question Number : 114 Question Id : 3405804674 Question Type : MCQ Option
Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator :
None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Which layer of the earth supports the tectonic plates

Options :

34058018693. ✖ Lithosphere

s: Hydrosphere

34058018695. Asthenosphere

34058018696. 8 Cryosphere

Question Number : 115 Question Id : 3405804675 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Micro breccia is also called

Options :

34058018697. s: Gouge

34058018698. ✔ Mylonite

Kaolinite

34058018699.

Shale

34058018700.

Question Number : 116 Question Id : 3405804676 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Modification of valley walls by undercutting, weathering and erosion is called

Options :

Incision

34058018701.

34058018702. Deposition

Denudation

34058018703.

34058018704. Exudation

Question Number : 117 Question Id : 3405804677 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

Acceleration due to gravity of the Earth attains its maximum at

Options :

Equator

34058018705.

Tropic of Cancer

34058018706. 8

Tropic of Capricorn

34058018707.

Poles

34058018708.

Question Number : 118 Question Id : 3405804678 Question Type : MCQ Option

Shuffling : Yes

Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

In C language, unless otherwise specified, entire arrays are passed _____

and individual array elements are passed

Options :

34058018709. 8 By value, by reference

By reference, by value
34058018710.

8 By value, by value
3405801871 1.

By reference, by reference
34058018712.

Question Number : 119 Question Id : 3405804679 Question Type : MCQ Option
Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator :
None Response Time
: N.A Think Time : N.A Minimum Instruction Time : 0
Correct Marks : 1 Wrong Marks : 0

Which of the following is not true of static local variables

Options :

34058018713. They are accessible outside of the function in which they are defined

They retain their values when the function in which they are defined
terminates

34058018714.

They are initialized to zero if not explicitly initialized by the
programmer

34058018715. 8

✘ They can be of type int

34058018716.

Question Number : 120 Question Id : 3405804680 Question Type : MCQ Option
Shuffling : Yes Display Question Number : Yes Is Question Mandatory : No Calculator :
None Response Time

: N.A Think Time : N.A Minimum Instruction Time : 0

Correct Marks : 1 Wrong Marks : 0

What is the result of performing the following addition

$$(OF4A)_{16} + (420B)_{16}$$

Options :

34058018717. $(4155)_{16}$

34058018718. $(5155)_{16}$

34058018719. $(6155)_{16}$

34058018720. $(7155)_{16}$