Andhra Pradesh State Council of Higher Education

Notations:

Change Theme:

Help Button:

Show Reports:

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

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

	Geo Engineering and Geo Informatics 28th
Question Paper Name :	May 2023 Shift 1
Duration :	120
Total Marks :	120
Display Marks:	No
Share Answer Key With Delivery Engine :	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
Change Font Color :	No
Change Background Color :	No

No

No

No

Show Progress Bar: No

Is this Group for Examiner?: No

Examiner permission : Cant View

Show Progress Bar?: No

Geo Engineering and Geo Informatics

Section Id: 78773217

Section Number:

Mandatory or Optional: Mandatory

Number of Questions: 120

Section Marks: 120

Enable Mark as Answered Mark for Review and

Yes Clear Response:

Maximum Instruction Time: 0

Is Section Default?: null

Question Number : 1 Question Id : 7877321921 Display Question Number : Yes Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Consider the following statements:

- a. Continental crust is lighter than ocean crust
- b. The boundary between the Mantle and Core is demarcated by Gutenberg discontinuity.

Options:

Only 'a' is correct

Only 'b' is correct

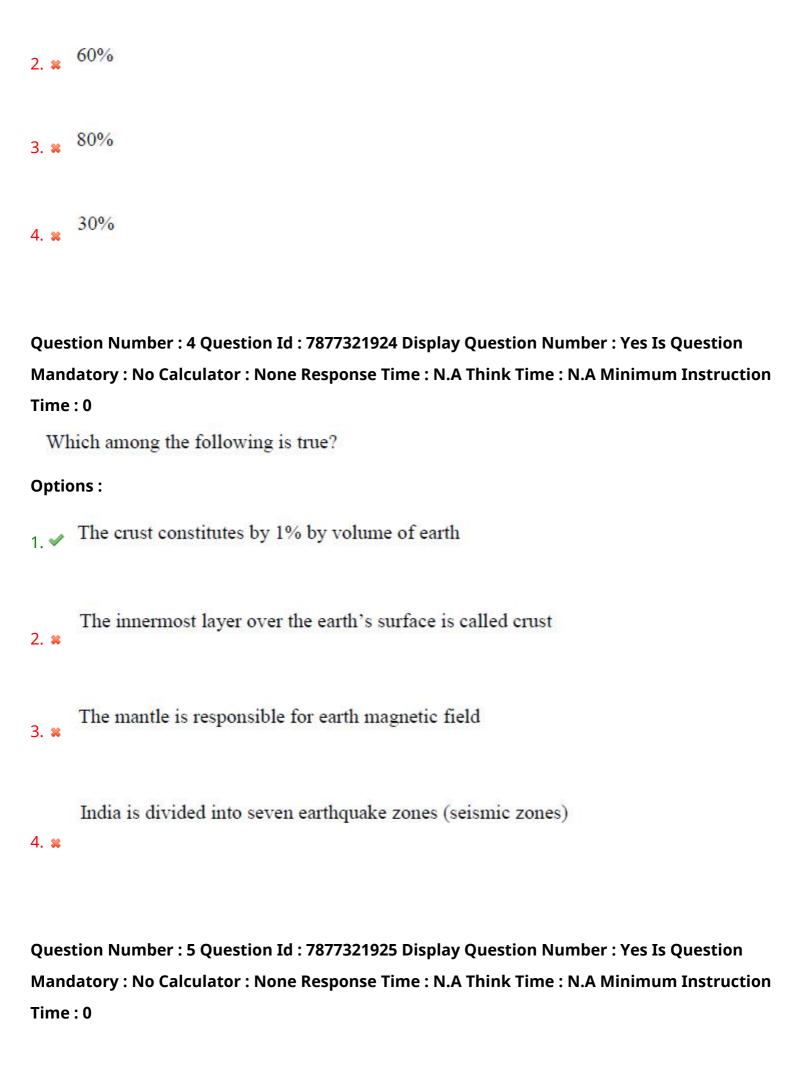
Both 'a' and 'b' are correct Both 'a' and 'b' are incorrect 4 💥 Question Number: 2 Question Id: 7877321922 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which of the following is not a division of ocean floors? **Options:** 1. Deep sea plain 2. Continental slopes 3. Continental shelf 4. ✔ Continental deeps Question Number: 3 Question Id: 7877321923 Display Question Number: Yes Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

What percentage of the oceans' water does the deep layer hold?

Options:

1. 4 50%



Sequence of layers starting from Earth surface

- i. Troposphere
- ii. Exosphere
- iii. Stratosphere
- iv. Thermosphere
- v. Mesosphere

Options:

Question Number : 6 Question Id : 7877321926 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following is direct source of information about the interior of the earth

- Mining activities
- 2. Seismic activities and Volcanic activities

Deep ocean drilling activities 3. **
4. * Infrastructure activities
Question Number : 7 Question Id : 7877321927 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
is the extended margin of each continent occupied by relatively shallow seas and gulf
Options :
1. * Deep sea plain
Continental shelf 2. ✓
3. * Continental slope
Oceanic deeps 4. **
Question Number : 8 Question Id : 7877321928 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0

Match the following:

Associated with

Ocean

- a) Largest and deepest ocean i) Indian ocean
- b) 'S' shaped ocean
- ii) Atlantic Ocean
- c) Madagascar is located
- iii) Pacific Ocean

Options:

Question Number: 9 Question Id: 7877321929 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

layer extends from 6000 m to the bottom of the deepest parts of the ocean.

- 1. Hadalpelagic Zone
- 2. **★** Abyssopelagic zone

Pelagic zone Neritic zone Question Number: 10 Question Id: 7877321930 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which unit is used to measure astronomical distance **Options:** Leap year Second year 2. 🐲 3. Century 4. ✓ Light year Question Number: 11 Question Id: 7877321931 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which of the following rock exhibits highest compressive strength **Options:** Granite 1. 🗯

2. * La	aterite
3. × Li	imestone
4. ✓	ineiss
	on Number : 12 Question Id : 7877321932 Display Question Number : Yes Is Question cory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0	
Sand	stone is generally weak in
Options	s:
1. * H	ardness
2. 🗸 A	brasion
3. * C	ompression
4. *	ension
	on Number : 13 Question Id : 7877321933 Display Question Number : Yes Is Question cory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0	
Granit	te is mainly composed of
Options	5:

1. 🗸	Quartz and feldspar
2. 🗶	Quartz and clay
3. 🕊	Quartz and sandstone
4. 💥	Feldspar and clay
	tion Number : 14 Question Id : 7877321934 Display Question Number : Yes Is Question
	datory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instructior
Time	:0
Whi	ch of the following physical properties is likely to be most useful in identifying a mineral
Optio	ons:
1. 🕊	Streak
2. 🗶	Density
3. 🗸	Hardness
4. 🕊	Lustre
Oues	tion Number: 15 Question Id: 7977221025 Display Question Number: Ves Is Question

Question Number : 15 Question Id : 7877321935 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time :	
	of the stone can be determined by subjecting it to a hammering blow
Option	s:
1. * F	Hardness
2. 🗸 🗍	Coughness
3. **	Attrition
4. * I	Dressing
Ouosti	on Number : 16 Question Id : 7977221026 Display Question Number : Ves Is Question
	on Number : 16 Question Id : 7877321936 Display Question Number : Yes Is Question tory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Manda	tory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Manda Time :	tory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction rocks are formed by cooling of the molten lava on or inside the earth's
Manda Time :	tory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Manda Time :	tory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction rocks are formed by cooling of the molten lava on or inside the earth's during the volcanic eruption
Manda Time: surface Option	tory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction rocks are formed by cooling of the molten lava on or inside the earth's during the volcanic eruption
Manda Time: surface Option 1. **	tory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction rocks are formed by cooling of the molten lava on or inside the earth's during the volcanic eruption s:
Manda Time: surface Option 1. **	tory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction rocks are formed by cooling of the molten lava on or inside the earth's during the volcanic eruption s: Calcareous rock

Question Number: 17 Question Id: 7877321937 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following rocks are those which exhibits distinct layers which can be separated

Options:

- 1. * Argillaceous rock
- 2. Stratified rock
- Calcareous rock
- Sedimentary rock

Question Number: 18 Question Id: 7877321938 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following is the group of silicate minerals that have perfect cleavage, so that they split in to thin plates.

- Feldspar
- 2. Gypsum

3. ✓ Mica
4. * Quartz
Question Number : 19 Question Id : 7877321939 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Which among the following mineral made up of a pure element
Options :
1. * Coal
2. * Glass
3. ✓ Copper
4. * Quartz
Question Number: 20 Question Id: 7877321940 Display Question Number: Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Halite dominantly occurs within sedimentary rocks where it has formed from the
Options :
Cooling of magma

2. V Evaporation of seawater or salty lake water
3. * Cooling of lava
Crystallization of hot water solution on the ocean floor 4. **
Question Number : 21 Question Id : 7877321941 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
describes the light is highly reflected from the mineral surface.
Options :
1. * Streak
2. * Density
Fluorescence 3. **
Lustre 4. ✓
Question Number : 22 Question Id : 7877321942 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
What is the colour of a mineral in powdered form called?

1. * Lustre
2. ✓ Streak
3. * Density
Hardness 4. *
Question Number : 23 Question Id : 7877321943 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Which of the following metamorphic rock has most weather resisting characteristics?
Options:
1. * Slate
Quartzite 3. ✓
4. * Lime stone
Question Number : 24 Question Id : 7877321944 Display Question Number : Yes Is Question

Question Number: 24 Question Id: 7877321944 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

	ns:
1. 🗶	Durability
2. 🗸	Soluble and clay matter
3. 🗶	Water absorption
4. 🗶	Hardness
	tion Number : 25 Question Id : 7877321945 Display Question Number : Yes Is Question atory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0	
Time	: 0
	lin is chemically classified asrock
	lin is chemically classified asrock
Kao Optio	lin is chemically classified asrock
Kao Optio 1. *	olin is chemically classified asrock ns:
Kao Optio 1. * 2. *	olin is chemically classified asrock ns: Siliceous

The following can be obtained by performing Smith test

Question Number : 26 Question Id : 7877321946 Display Question Number : Yes Is Question

Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
The representation of difference in elevation between two points is called as
Options:
1. ** Topography
2. ✓ Relief
3. * Level line
Ridge line 4. **
Question Number : 27 Question Id : 7877321947 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Locating the details of rivers, streams, lakes, roads, mountains and contours in which
of the following survey?
Options:
Cadastral survey 1. **
2. * Astrological survey
Topological survey
3. ✓

Question Number : 28 Question Id : 7877321948 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Consider the following statements:

- a. Size of Theodolite is governed by lower plate
- b. Shifting head help in accurate centering of instrument

Options:

- Only 'a' is correct
- Only 'b' is correct
- Both 'a' and 'b' are correct
- Both 'a' and 'b' are incorrect

Question Number: 29 Question Id: 7877321949 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following instrument is designed for the measurement of horizontal and vertical angles?

Options:

Dumpy level

2. * Crass staff
3. ✔ Theodolite
Invar tape 4. **
Question Number : 30 Question Id : 7877321950 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
The vertical circle is a circular graduated arc attached to the following axis of the telescope?
Options:
Inner axis
Outer axis
Line of sight 3. **
Trunnion axis 4. ✓
Question Number : 31 Question Id : 7877321951 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0

Presence of artificial manmade tank in toposheet with an embankment shows_____

scanty rainfall in the area
2. ✓ water is being stored in off season and is used for irrigation through canals
advancement of science and technology 3. **
people of the area need extra water 4. **
Question Number : 32 Question Id : 7877321952 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
What is the full form of DEM
Options:
1. * Discrete elevation model
2. ** Data elevation model
3. ✓ Digital elevation model
4. * Decision enterprise method
Question Number : 33 Question Id : 7877321953 Display Question Number : Yes Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0		
As the height of a satellite orbit gets lower, the speed of the satellite		
by keeping other characteristics are same.		
Options :		
Increases .		
Decreases 2. *		
Remains same		
Zero I. *		
Question Number : 34 Question Id : 7877321954 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0		
The apparent moment of point under observation with respect to the reference system caused by the moment of the camera position is known as?		
Options :		
. Parallax		
Photo interpretation		

4.

Tilted photograph

Ques	stion Number : 35 Question Id : 7877321955 Display Question Number : Yes Is Question
Man	datory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time	e: 0
3	provides height or depth to the object in the photograph as it would have
beer	n seen by the human eye.
Opti	ons:
1. 🗶	Terrestrial photography
	Mirror

3. ✓ Stereoscopic vision

Aerial photography
4. *

Question Number : 36 Question Id : 7877321956 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Which among the following is the best mapping procedure?

Options:

1. Aerial photogrammetry

Elite photogrammetry

Terrestrial photogrammetry Plane table photogrammetry 4. ** Question Number: 37 Question Id: 7877321957 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which projection is mainly used in aerial photographs. **Options:** Central projection Parallel projection Orthogonal projection Oblique projection Question Number: 38 Question Id: 7877321958 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following is wrong statement

A map is geometrical correct representation of part of the earth projection 1. **
2. ✓ Map is a central projection
Scale of the map is uniform throughout the map extent 3. **
Map is an orthogonal projection 4. ■
Question Number: 39 Question Id: 7877321959 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instructio Time: 0 The foot of the perpendicular drawn from the camera lens on the ground plane is known as
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instructio Time : 0
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instructio Time: 0 The foot of the perpendicular drawn from the camera lens on the ground plane is known as
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instructio Time: 0 The foot of the perpendicular drawn from the camera lens on the ground plane is known as Options: Nadir point or photographic Nadir
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instructio Time: 0 The foot of the perpendicular drawn from the camera lens on the ground plane is known as Options: Nadir point or photographic Nadir 1. ✓
Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instructio Time: 0 The foot of the perpendicular drawn from the camera lens on the ground plane is known as Options: Nadir point or photographic Nadir Interpretative point Homologous point

Question Number : 40 Question Id : 7877321960 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Which of the following covers the entire area in short span?
Options :
Aerial photogrammetry 1. **
Theodolite photogrammetry 2. **
Terrestrial photogrammetry 3.
Traversing surveying 4. **
Question Number : 41 Question Id : 7877321961 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Optical center of camera through which all rays of light pass is called as
Options :
Perspective center 1. ✓
2. * Isocentre
3. * Tilt
Nadir point

Question Number : 42 Question Id : 7877321962 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
The perpendicular distance between the camera lens and negative plane is known as
Options:
1. * Map distance
Ground distance
3. ✔ Focal length
Flying height 4. *
Question Number: 43 Question Id: 7877321963 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 The shift in an object's image position caused by its elevation above a particular datum is known as
Options: 1. ** Radial displacement
Vertical displacement

3. ✔ Relief displacement

4. * Parallax

Question Number : 44 Question Id : 7877321964 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The art, science and technology of making maps together with their study as scientific documents and work of art known as

Options:

- Demography
- Bibliography
- Stenography
- 4. ✓ Cartography

Question Number : 45 Question Id : 7877321965 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The distance between two points on an aerial photograph is measured as 2 centimetres. The known distance between the same two points on the ground is 1 km. Compute the scale of the aerial photograph.

Options:

- 1:100000
- 2. 1:50000
- 1:20000
- 4. * 1:5000

Question Number: 46 Question Id: 7877321966 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which imaging system use conventional type camera

Options:

- 1. Multispectral
- 7 Thermal
- 3. * Infra red
- Microwave

4. 3

Question Number : 47 Question Id : 7877321967 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Reconnaissance survey is advantage in case of
Options:
Vertical photograph 1. **
2. ✓ Low oblique photograph
3. * Medium scale photograph
Small scale photograph 4. *
Question Number : 48 Question Id : 7877321968 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
For measuring horizontal angle between two lines with better accuracy than that given
by the Vernier method commonly used is
Options :
1. * Reiteration
2. * Double centering
3. * Double sighting

4. Repetition

Question Number : 49 Question Id : 7877321969 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

The most significant systematic error in GPS observable is

Options:

- 1. * Cycle slip
- 2. Receiver clock error
- 3. * Ionospheric error
- Integer ambiguity

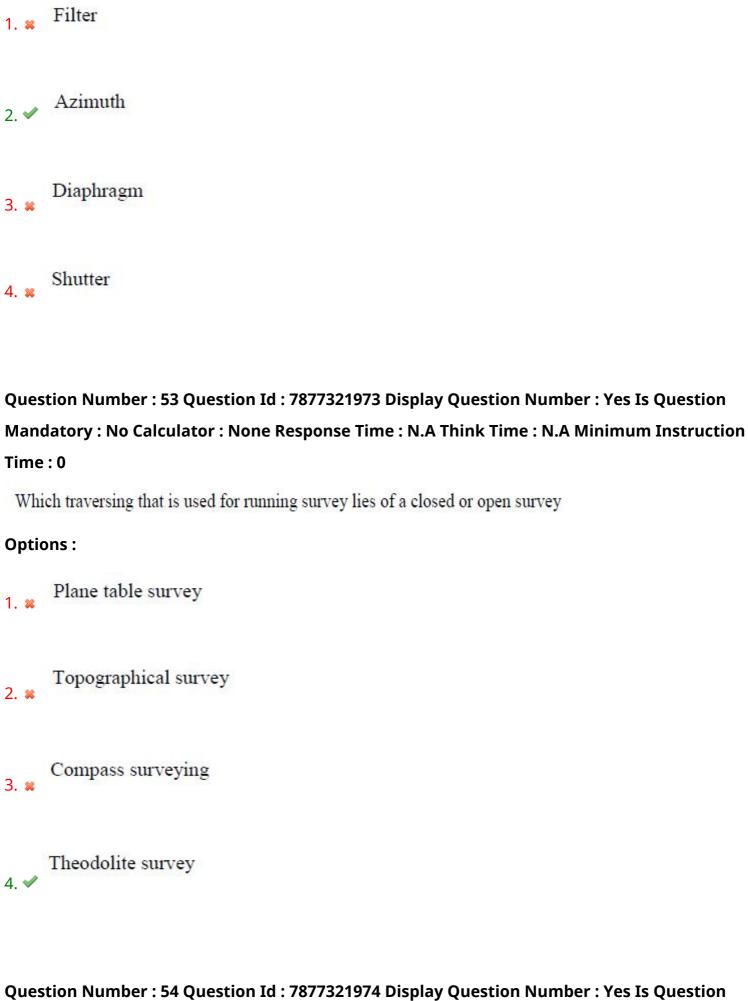
Question Number : 50 Question Id : 7877321970 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Planimeter is an instrument which is used for the following reason

- Sighting parallel and perpendicular points to station
- 2. Measuring area of plan

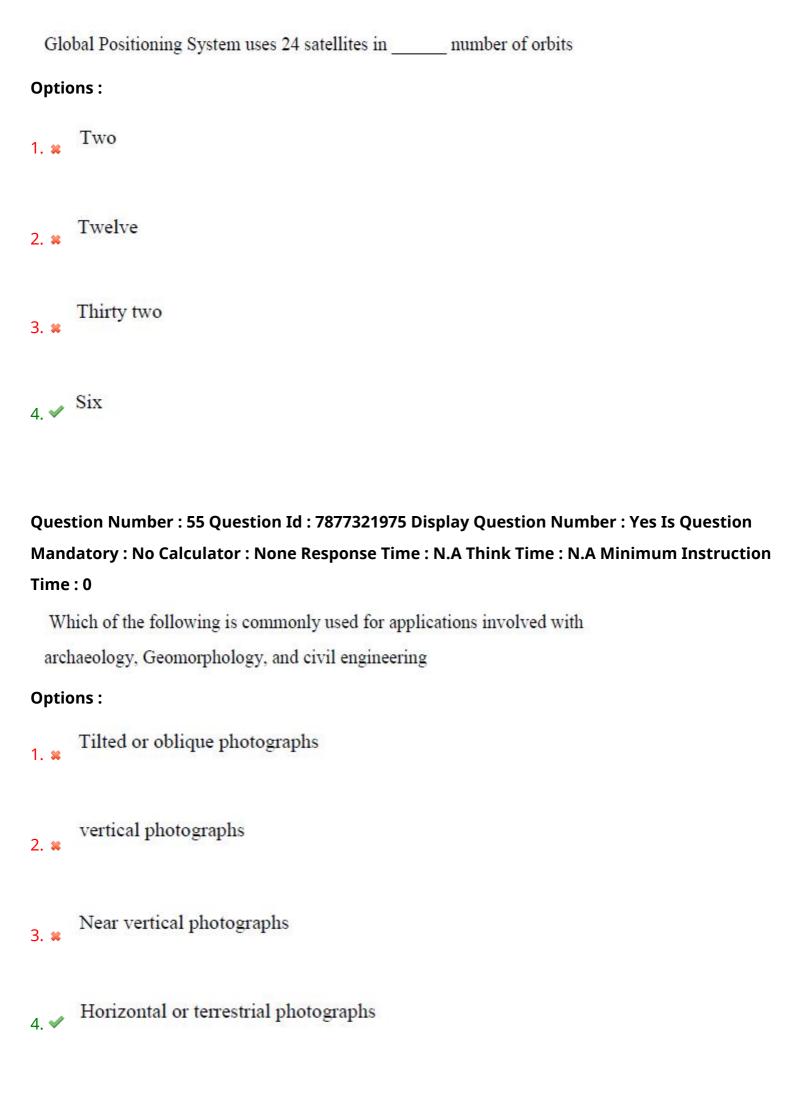
Transforming points from paper to ground 3. **
Simpsons one third rule 4. **
Question Number : 51 Question Id : 7877321971 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
A vertical line in the direction of gravity pass through perspective centre and meet on the ground known as
Options :
1. ✓ Plumb line
Oblique line 2. **
3. * Focal line
Fiducial line 4. *
Question Number : 52 Question Id : 7877321972 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Which of the following does not include in lens of aerial photogrammetry



Question Number: 54 Question Id: 787/321974 Display Question Number: Yes Is Question

Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0



Question Number : 56 Question Id : 7877321976 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following proves that electromagnetic waves are transverse?

Options:

- 1. Phenomenon of Polarisation
- Phenomenon of Interference
- Phenomenon of Diffraction
- Phenomenon of Reflection

Question Number: 57 Question Id: 7877321977 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The science of acquiring the information about earth surface without actually being in contact with it is known as?

- Geomorphology
- 2. * Geographical Information System
- Global Positioning system

4. ✓ Remote Sensing

Question Number: 58 Question Id: 7877321978 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Relation between the velocity of propagation (V), the wavelength (λ), and wave frequency (f) is

Options:

$$V = 0.5 \text{ f} \lambda$$

$$V = 2 f \lambda$$

$$V = f\lambda$$

$$V = 0.1 f \lambda$$

Question Number : 59 Question Id : 7877321979 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

The full form of NASA is

Options:

National Aerospace and Space Administration

1. **

- National Aerospace and satellite Administration
- National Aeronautics and Space Academy
- National Aeronautics and Space Administration 4.

Question Number : 60 Question Id : 7877321980 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Identify the infrared portion of electromagnetic radiation lies in between

Options:

$$4. \checkmark 0.7 \mu m - 14 \mu m$$

Question Number : 61 Question Id : 7877321981 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which resolution has the capability to view the same targets under similar condition at regular interval.

Options:

- Spectral
- 2. * Radiometric
- 3. * Spatial
- Temporal 4. ✓

Question Number: 62 Question Id: 7877321982 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Consider the following statements:

- a. The narrower the bands, the lower the spectral resolution.
- b. Spectral resolution refers to the specific wave length intervals in the electromagnetic spectrum that a sensor can record.

- Only 'a' is correct
- 2. ♥ Only 'b' is correct
- Both 'a' and 'b' are correct

Both 'a' and 'b' are incorrect

Question Number : 63 Question Id : 7877321983 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Which resolution relates to how much information is perceived by a satellite's sensor.

Options:

- Spectral resolution
- Radiometric resolution
- 3. * Spatial resolution
- Temporal resolution

Question Number : 64 Question Id : 7877321984 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

Which of the following waves are used in Remote sensing technique

- Electric waves
- Sound waves

- 3. * Wind waves
- Electromagnetic waves

Question Number : 65 Question Id : 7877321985 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0

Polar orbit satellites has an inclination of about _____ degrees to the body's equator.

Options:

- 60 -90
- 2. * 60 -100
- 60 -110
- 4. * 60 -125

Question Number : 66 Question Id : 7877321986 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

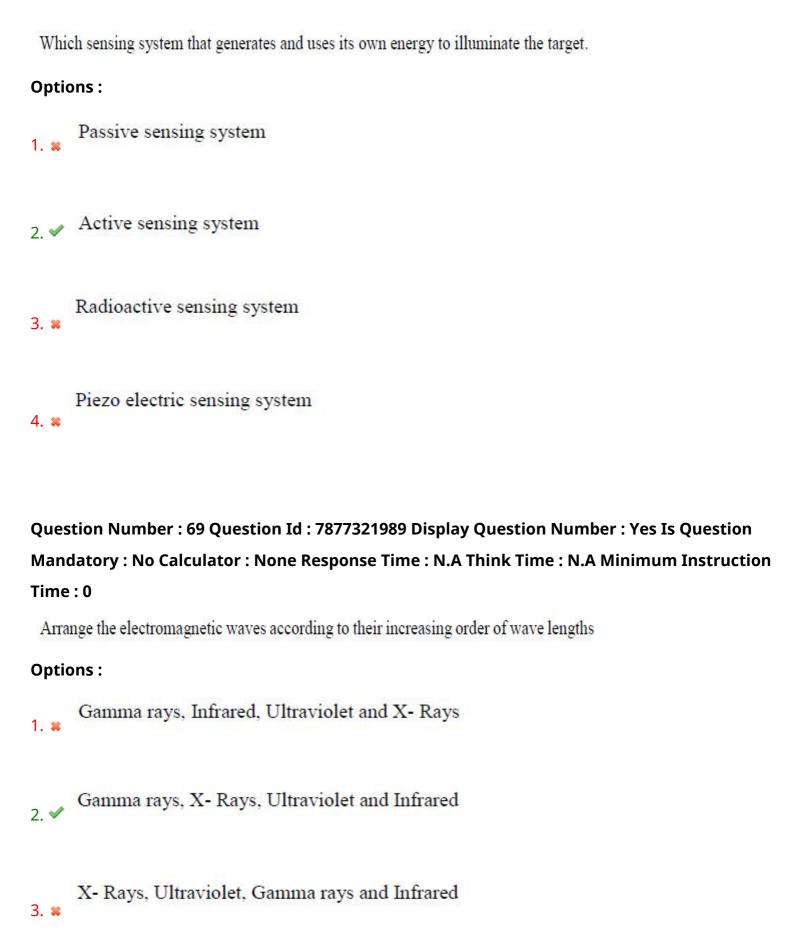
Which of the following is not considered under land cover category

Options:

1. Agriculture

2. 🗶	Forest
3. 🗱	Rivers
4. 🗙	Hills
	tion Number : 67 Question Id : 7877321987 Display Question Number : Yes Is Question latory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction : 0
	ch sensor that measures the intensity of electromagnetic radiation emanating from
all ol	bjects with in its field of view and wave length range.
Optio	
1. 🗸	Radiometer
2. 🕊	Photometer
3. 🗶	Sensor
4. 🗱	Radiation
	tion Number : 68 Question Id : 7877321988 Display Question Number : Yes Is Question latory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction

Time: 0



Infrared, Gamma rays, X- Rays and Ultraviolet

4. 💥

Question Number: 70 Question Id: 7877321990 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which of the following is not a characteristic of Remote sensing? **Options:** Radiometric resolution 1. 💥 Spatial resolution 3. Mercator resolution Spectral resolution Question Number: 71 Question Id: 7877321991 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 By which of the following agency launched Radarsat-1 on November 28, 1995. **Options:** Canadian space agency Indian space agency 2. ** European space agency 3. 💥

4. **

Lat	pan	CT	12	CA	2	CAT	CV
Ja	Dan	2	Ja	CC	a	ZCI.	IC y

Question Number : 72 Question Id : 7877321992 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0

The process of examining a remote sensing image and manually identifying features in the image is called_____

Options:

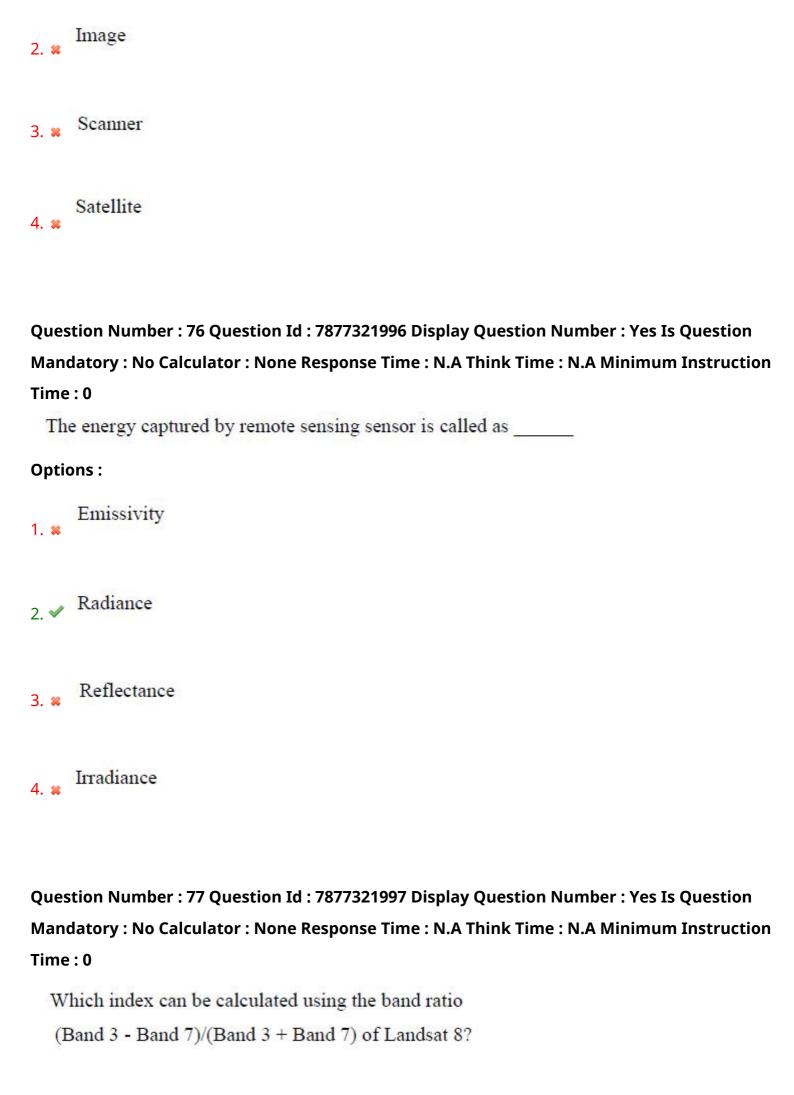
- Image building
- 2. ✓ Image interpretation
- Image classification
- Image compression

Question Number: 73 Question Id: 7877321993 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

In the 1986, SPOT French earth satellite provided first time spatial resolution at

- 1. 40 m PAN and 50 m multispectral
- 2. 10 m PAN and 20 m multispectral

20 m PAN and 30 m multispectral 3. **
30 m PAN and 30 m multispectral
Question Number : 74 Question Id : 7877321994 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Which of the following is considered as fourth dimension of the remote sensing
Options:
1. * Location
2. * Scale
3. Time
4. * Space
Question Number : 75 Question Id : 7877321995 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
IFOV is angular cone of visibility of the following
Options:
1. ✓ Sensor



Optio	ons:
1. 🗶	NDVI
2. 💥	NDII
3. 🗸	NDWI
4. 💥	EVI
	tion Number : 78 Question Id : 7877321998 Display Question Number : Yes Is Question latory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time	:0
	ich among the following remote sensing technique is used for the identification of se forest.
Optio	
1. 🗸	Thermal image
2. 💥	Microwave image
3. 🗱	Aerial photograph
4. 🗶	High resolution optical image

Question Number : 79 Question Id : 7877321999 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
In a Minimum Noise Factor (MNF) transformed satellite image, noise has
Options:
1. ✓ Unit variance
Multi variance 2. **
Two standard deviation 3. ■
Zero variance
Question Number : 80 Question Id : 7877322000 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
The characteristic of electromagnetic radiation are particularly important to understand
in the remote sensing.
Options :
1. * Wave length
2. * Frequency

Band width 4. *
Question Number : 81 Question Id : 7877322001 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
Write down full form of DGPS?
Options:
1. ✓ Differential Global Positioning System
2. * Difference Global Posting system
3. * Differential Global Posting system
Difference Global Positioning system 4. *
Question Number : 82 Question Id : 7877322002 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Among the following can be expressed as an example of hardware component.
Options:
1. ** Auto cad
Arc GIS

3. * Digitalization

Keyboard

Question Number: 83 Question Id: 7877322003 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Pick odd one out with respect to key activities in urban planning.

Options:

- 1. Drafting
- Mapping
- Monitoring
- Management

Question Number: 84 Question Id: 7877322004 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which of the following is the main purpose of Geostationary satellite?

Options:

Global positioning

- Telecommunication and weather monitoring
- Remote sensing
- Temporal resolution

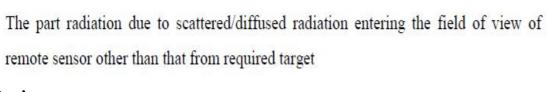
Question Number: 85 Question Id: 7877322005 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

A cell with 1 metre Spatial resolution covers an area 1 m² where as a pixel with 0.1 m spatial resolution covers an area of

Options:

- 1. ***** 0.1 m²
- 0.001 m²
- 3. ✓ 100 cm²
- 0.1 cm²

Question Number: 86 Question Id: 7877322006 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0



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•	Pι			

- Increases the contrast of image but reduce the sharpness
- 2. Reduces the contrast of image and also its sharpness
- Increases the contrast of image and sharpness
- reduce the contrast of image but increases the sharpness

Question Number: 87 Question Id: 7877322007 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Purpose of Geo referencing is,

- Converting data to a future classes
- 2. Combining two data set
- 3. Assigning geographic information
- Projecting your data so that it has no destruction

Question Number: 88 Question Id: 7877322008 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The orbital radius of GPS satellites is nearer to

Options:

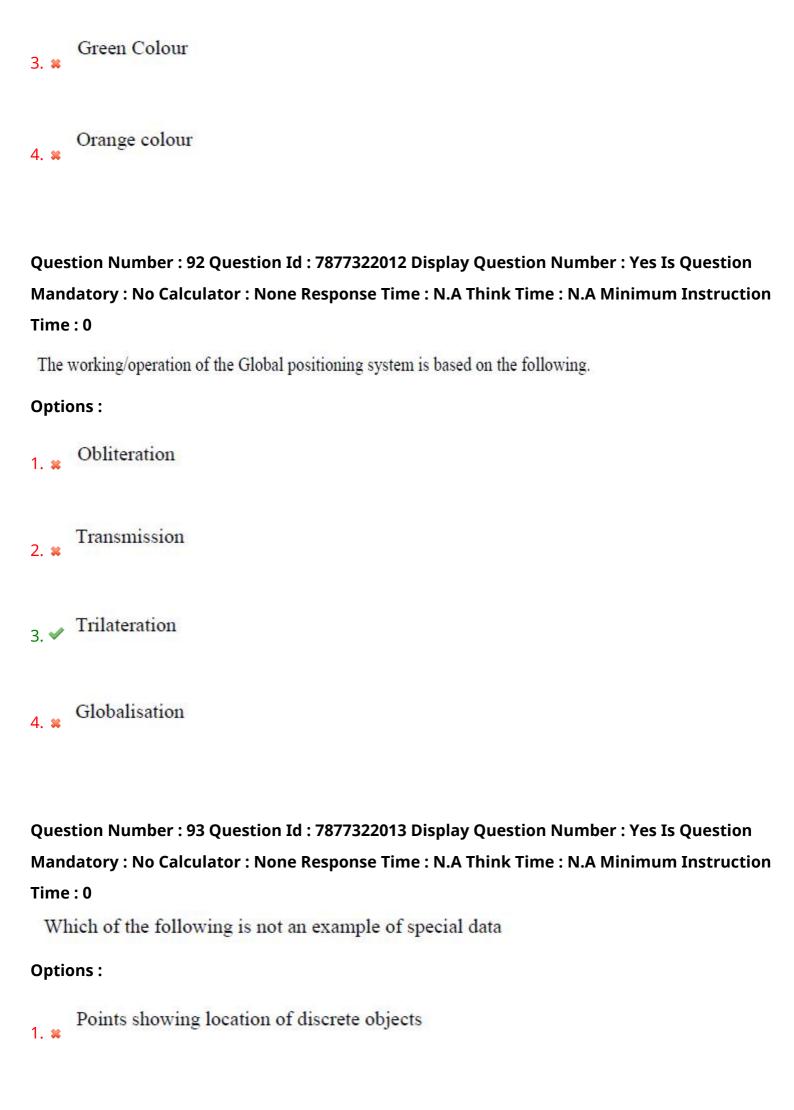
- 1. × 15000 km
- 18000 km
- 36000 km
- 4. ✓ 26600 km

Question Number : 89 Question Id : 7877322009 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0

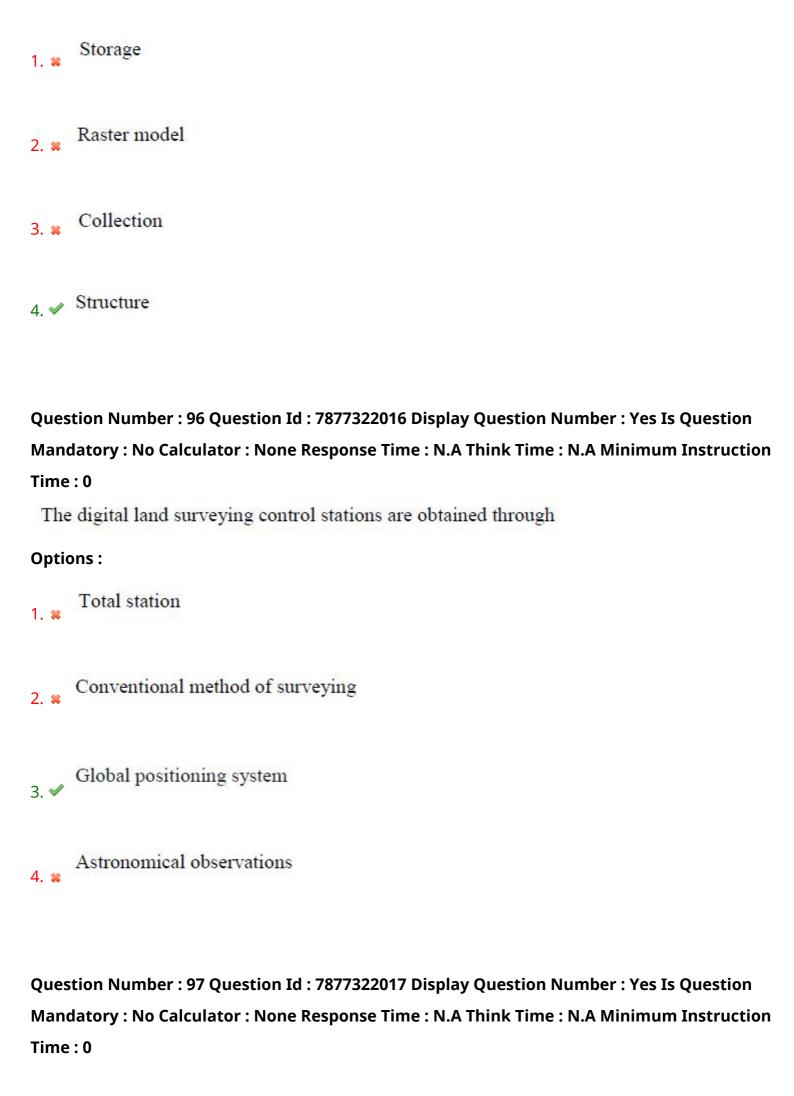
Which among the following is Unsupervised classified technique?

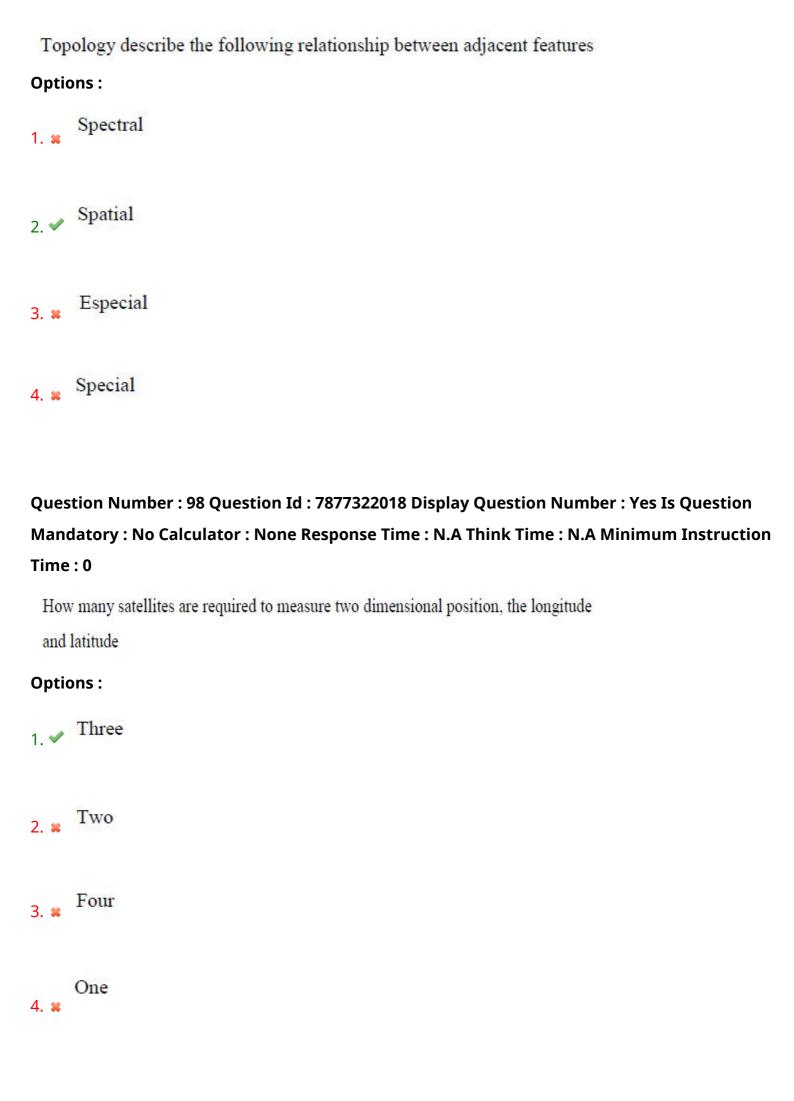
- Use training sets has numerical interpretation keys
- 2. Aggregate pixel in to natural spectral groupings/clusters
- Pixel categorisation being supervised

Based in look like most concept Question Number: 90 Question Id: 7877322010 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 A special query in GIS is related to the following **Options:** 1. Pixels 2. Attributes Coordinates Buffering 4. ** Question Number: 91 Question Id: 7877322011 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 In false colour composite (FCC) image healthy vegetation generally appears Options: 1. Blue colour 2. ✔ Red Colour



2. * Lines showing the route of linear objects
Polygon showing the area occupied by the particular land use
Time of particular 4. ✓
Question Number : 94 Question Id : 7877322014 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
GPS user solution depends on which of the following?
Options :
1. ✓ Space vehicle
2. * Satellite vehicle
Relative positioning 3. **
Absolute positioning
Question Number : 95 Question Id : 7877322015 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
In Global positioning system, topology is implemented through data
Options:
•





Question Number: 99 Question Id: 7877322019 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which of the following is not a thematic layer? **Options:** Vector layer showing ground water depth Vector layer showing state wise population of India Vector layer showing the coal mines in India 4. Satellite image over India Question Number: 100 Question Id: 7877322020 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0 Which of the following best suits "meta data" **Options:** Mono data 1. 💥 2. Data about data Meteorological data

Contour data

4. 💥

Question Number: 101 Question Id: 7877322021 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction

Time: 0

Which is the tendency of minerals to split along crystallographic planes as a result of structural locations of atoms and ions in the crystal, creating planes of relative weakness

Options:

- 1. ✓ Cleavage
- 2. Density
- Fluorescence
- Lustre

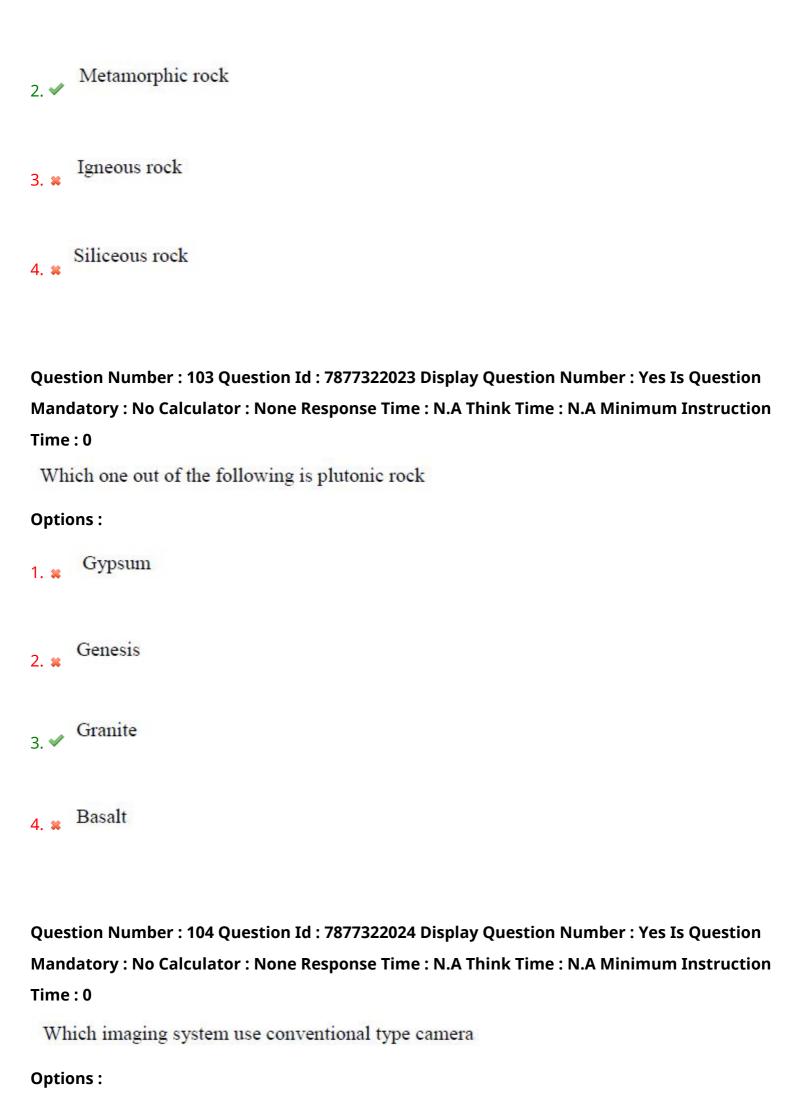
Question Number: 102 Question Id: 7877322022 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which among the following rocks are formed, when minerals are deposited and accumulated in the strata's

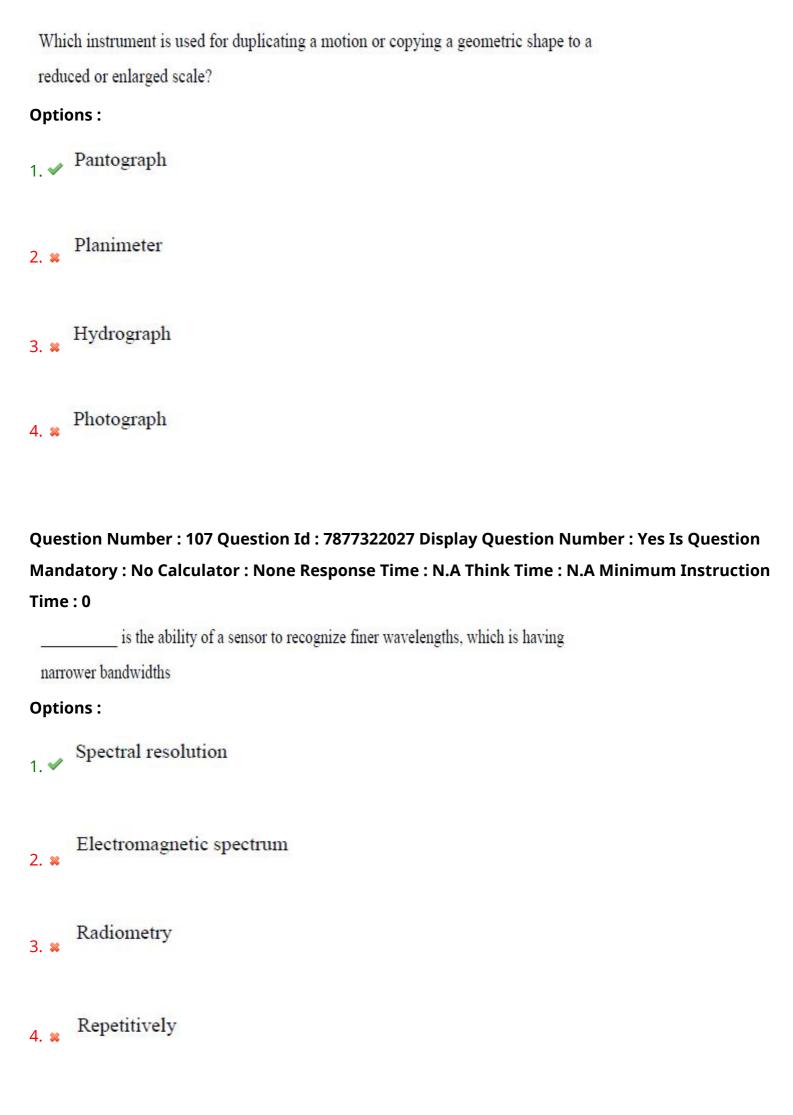
Options:

Sedimentary rock

1 9



1. Multispectral
2. * Thermal
3. ** Infrared
4. * Microwave
Question Number : 105 Question Id : 7877322025 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Expand IRNSS
Options:
Indian Regional Navy Satellite System 1. **
2. * Indian Recreational Navigation Satellite System
3. ✓ Indian Regional Navigation Satellite System
4. * Indian Recreational Navy Satellite System
Question Number : 106 Question Id : 7877322026 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0



Question Number : 108 Question Id : 7877322028 Display Question Number : Yes Is Question
Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction
Time: 0
NavIC signals will consist of
Options:
Only Standard Positioning Service.
2. ** Only Restricted Service.
3. * No signal
4. ✓ Both Standard Positioning Service and a Restricted Service.
Question Number : 109 Question Id : 7877322029 Display Question Number : Yes Is Question Mandatory : No Calculator : None Response Time : N.A Think Time : N.A Minimum Instruction Time : 0
Cartosat-3 is an advanced Indian Earth Observation satellite built and developed by
Options:
1. * NASA
2. * DRDO
3. ✓ ISRO

4. 💥

ISRO and DRDO

Question Number: 110 Question Id: 7877322030 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

Which among following defines 'Radiance' in remote sensing?

Options:

- An active sensor that uses radio waves to measure the distance to an object
- 2 A measure of the light or heat emitted from a target object.

The means by which you display the coordinate system and your data on a flat surface

3. *

The orientation of an electromagnetic wave

4. **

Question Number: 111 Question Id: 7877322031 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

One of the eigen value of
$$\begin{bmatrix} 7 & 4 & -4 \\ 4 & -8 & -1 \\ 4 & -1 & -8 \end{bmatrix}$$
 is -9 . Find the other two eigen values.

Question Number: 112 Question Id: 7877322032 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

For what values of a, b the following equations x + 2y + z = 8, 2x + y + 3z = 13, 3x + 4y - az = b have a unique solution?

$$a \neq -11/3$$
, $\forall b$

$$a = -11/3, \forall b$$

a ≠
$$11/3$$
, \forall b

$$a = 11/3, \forall b$$

Question Number: 113 Question Id: 7877322033 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The value of $\iint x^2 dx dy$, where the region bounded by hyperbola xy = 4, y = 0, x = 1, x = 4 is

Options:

Question Number: 114 Question Id: 7877322034 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

If
$$\bar{r} = x i + y j + z k$$
 then, grad $r =$

$$-\frac{\bar{r}}{r}$$

$$\frac{\bar{r}}{r}$$

Question Number: 115 Question Id: 7877322035 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The general solution of
$$(x + y + 1) \frac{dy}{dx} = 1$$

Options:

$$x - y = C e^y - 2$$

$$x + y = C e^y - 2$$

$$x + y = C e^x - 2$$

$$x + y = C xe^y - 2$$

Question Number: 116 Question Id: 7877322036 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The general solution of $x^2 \frac{d^2y}{dx^2} - 2x \frac{dy}{dx} - 4y = 0$

Options:

$$y = C_1 x^{-1} + C_2 x^{-4}$$

$$y = C_1 x + C_2 x^{-4}$$

$$y = C_1 x + C_2 x^4$$

$$y = C_1 x^{-1} + C_2 x^4$$

Question Number: 117 Question Id: 7877322037 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

The value of
$$\oint_C \frac{\cos z}{z(z^2+8)} dz$$
, where $C: |z| = 1$ is

$$\frac{\pi i}{4}$$

$$\frac{\pi i}{2}$$

$$\pi i$$

$$2\pi i$$

4. **

Question Number: 118 Question Id: 7877322038 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

If
$$f(z) = \frac{z^2 + 1}{z^2 - z}$$
, then the residue at $z = 0$ is

Options:

$$_{3}$$
 $\sqrt{-1}$

Question Number: 119 Question Id: 7877322039 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

A fair coin is tossed repeatedly till both head and tail appear at least once. The average number of tosses required is

Options:

- 1 * 0
- 3
- 3. *
- 4. **

Question Number: 120 Question Id: 7877322040 Display Question Number: Yes Is Question Mandatory: No Calculator: None Response Time: N.A Think Time: N.A Minimum Instruction Time: 0

If
$$\frac{dy}{dx} = 1 + xy$$
 and $y(0) = 1$ then using Picard's method the value of $y^{(1)}(1)$ is

- 1. *
- 1.5
- 2 %

3. ✓ 2.5

4. * 2