

Question Paper Name:  
Subject Name:

Geo Engineering and Geo Informatics 10th May 2017 Shift 1  
Geo Engineering and Geo Informatics

Geo Engineering and Geo Informatics

Display Number Panel: Yes  
Group All Questions: No

Question Number : 1 Question Id : 254528361 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The eigen values of a matrix  $A = \begin{bmatrix} 4 & 5 \\ 2 & -5 \end{bmatrix}$  are

Options :

1. -7 and 8
2. -6 and 5
3. 3 and 4
4. 1 and 2

Question Number : 2 Question Id : 254528362 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If A is a 2x2 matrix with eigen values 8, 4 and the corresponding eigen vectors are  $\begin{bmatrix} 1 \\ 1 \end{bmatrix}$

and  $\begin{bmatrix} 1 \\ -1 \end{bmatrix}$  then the matrix A =

Options :

1.  $\begin{bmatrix} 6 & 2 \\ 2 & 6 \end{bmatrix}$
2.  $\begin{bmatrix} 4 & 6 \\ 6 & 4 \end{bmatrix}$

$$4. \begin{bmatrix} 4 & 8 \\ 8 & 4 \end{bmatrix}$$

Question Number : 3 Question Id : 254528363 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The minimum value of  $x^2 + y^2$  where  $x + y = 1$  is attained when

Options :

1.  $x = 1, y = 1$

2.  $x = 1, y = 0$

3.  $x = \frac{1}{4}, y = \frac{3}{4}$

4.  $x = \frac{1}{2}, y = \frac{1}{2}$

Question Number : 4 Question Id : 254528364 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The directional derivative of  $\phi = 2x^2 + 3y^2 + z^2$  at  $(2, 1, 3)$  in the direction of the vector  $\bar{i} - 2\bar{k}$  is \_\_\_\_\_.

Options :

1.  $-\frac{4}{\sqrt{5}}$

2.  $\frac{4}{\sqrt{5}}$

3.  $\frac{8}{\sqrt{5}}$

4.  $-\frac{12}{\sqrt{5}}$

Question Number : 5 Question Id : 254528365 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The work done in moving a particle in the force field  $\bar{F} = 3x^2\bar{i} + (2xz - y)\bar{j} + z\bar{k}$  along the straight line from the point  $(0, 0, 0)$  to point  $(2, 1, 3)$  is

Options :

1. 0

3.

4. 8

Question Number : 6 Question Id : 254528366 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The function  $f(z) = |z|^2$  is

Options :

1. Not differentiable at  $z = 0$

2. Analytic at  $z = 0$

3. Differentiable and analytic at  $z = 0$

4. Differentiable but not analytic at  $z = 0$

Question Number : 7 Question Id : 254528367 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The radius of convergence of the power series  $\sum_{n=0}^{\infty} (3 + 4i)^n z^n$  is

Options :

1. 0

2. 5

3.  $\frac{1}{5}$

4.  $\frac{1}{7}$

Question Number : 8 Question Id : 254528368 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Let  $P(E)$  denote the probability of the event  $E$ . Given that  $P(A) = 1$ ,  $P(B) = \frac{1}{2}$ , then the values of  $P(A/B)$  and  $P(B/A)$  respectively are \_\_\_\_\_.

Options :

1.  $\frac{1}{2}, \frac{1}{4}$

2.  $1, \frac{1}{2}$

4.  $\frac{1}{2} \cdot 1$

Question Number : 9 Question Id : 254528369 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

If the probability density function of a random variable X is

$$f(x) = \begin{cases} e^{-x}, & \text{if } x > 0 \\ 0, & \text{otherwise} \end{cases} \text{ then variance of X=}$$

Options :

1. 0
2. 1
3. 2
4.  $e^2$

Question Number : 10 Question Id : 254528370 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In a binomial distribution  $(p + q)^n$ , the mean and variance are  $\frac{25}{3}$  and  $\frac{50}{3}$  respectively. Then p is

Options :

1.  $\frac{4}{5}$
2.  $\frac{1}{3}$
3.  $\frac{3}{4}$
4.  $\frac{2}{5}$

Question Number : 11 Question Id : 254528371 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Present positions of continents is explained by

Options :

1. Big bang theory



3. Asteroid impact theory

4. Nebular theory

Question Number : 12 Question Id : 254528372 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Earth's Core is made up of

Options :

1. Sial

2. Sima

3. Peridotite

4. NiFe

Question Number : 13 Question Id : 254528373 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What are the inner/terrestrial planets in the solar system?

Options :

1. Earth, Mars, Saturn and Neptune

2. Jupiter, Saturn, Neptune and Pluto

3. Venus, Earth, Mars and Saturn

4. Mercury, Venus, Earth and Mars

Question Number : 14 Question Id : 254528374 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An example of Sedimentary rock is

Options :

1. Marble

2. Conglomerate

3. Basalt

Question Number : 15 Question Id : 254528375 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Example of igneous rock is

Options :

1. Basalt
2. Gneiss
3. Limestone
4. Marble

Question Number : 16 Question Id : 254528376 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following clays causes problems in civil engineering projects?

Options :

1. Kaolin
2. Illite
3. Montmorillonite
4. Vermiculite

Question Number : 17 Question Id : 254528377 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Identify the ascending order in terms of sea depth from the shore

Options :

1. Abyssal plain, Beach and shore line
2. Continental shelf, Continental slope and abyssal plain
3. Continental slope, Shore line and Abyssal plain
4. Continental slope, Continental shelf and abyssal Plain

Question Number : 18 Question Id : 254528378 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

1. Mohorovicic
2. Repetti
3. Lehman
4. Gutenberg

Question Number : 19 Question Id : 254528379 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which is the hardest mineral in Moh's scale of hardness?

Options :

1. Talc
2. Diamond
3. Topaz
4. Quartz

Question Number : 20 Question Id : 254528380 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Relative differences in opacity and transparency are described as

Options :

1. Luster
2. Streak
3. Color
4. Density

Question Number : 21 Question Id : 254528381 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is used in manufacturing of cement?

Options :

1. Hematite



4. Gypsum

Question Number : 22 Question Id : 254528382 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Cartography is a subject that deals with

Options :

1. Remote sensing
2. Aerial photography
3. Digital image analysis
4. Map making

Question Number : 23 Question Id : 254528383 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An example of 1:25,000 scale Indian topographical sheet is

Options :

1. 56/N/10
2. 56/N
3. 56/N/9/NE
4. 56/N/NE

Question Number : 24 Question Id : 254528384 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Survey of India does not publish maps in the scale of

Options :

1. 1:10,000
2. 1:25,000
3. 1: 20,000



Question Number : 25 Question Id : 254528385 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The scale of photography taken from a flying height of 3000 m. with a camera of focal length 15 cm is

Options :

1. 1:20.000
2. 1:10.000
3. 1:30.000
4. 1:15.000

Question Number : 26 Question Id : 254528386 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Closed contours of decreasing values towards their centre represent

Options :

1. a hill
2. a saddle or pass
3. a depression
4. a cliff

Question Number : 27 Question Id : 254528387 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The process of transforming geographic grid into plane coordinate system is called

Options :

1. Intervention
2. Interpolation
3. Projection
4. Intrusion

Question Number : 28 Question Id : 254528388 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is correct for orthophotos?

2. Scale is non-uniform throughout the photograph
3. Scale increases from center to edges of the photograph
4. Scale decreases from center to edges of the photograph

Question Number : 29 Question Id : 254528389 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

UTM belong to \_\_\_\_\_ projection.

Options :

1. Azimuthal
2. Cylindrical
3. Conical
4. Polyconic

Question Number : 30 Question Id : 254528390 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Lines joining the opposite fiducials of aerial photograph intersect at the point which is called as \_\_\_\_\_.

Options :

1. Principal Point
2. Nadir Point
3. Isocenter
4. Focal Point

Question Number : 31 Question Id : 254528391 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

As per the Stefan-Boltzmann law, the total radiant exitance from the object is proportional to the \_\_\_\_\_.

Options :



2. Cube of the absolute temperature of the emitting object
3. 5<sup>th</sup> power of the absolute temperature of the emitting object
4. 4<sup>th</sup> power of the absolute temperature of the emitting object

Question Number : 32 Question Id : 254528392 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following organizations prepares the topographical maps for India at regular intervals?

Options :

1. National Remote Sensing Centre
2. Survey of India
3. National Bureau of soil surveying and land use planning
4. Space Application Centre

Question Number : 33 Question Id : 254528393 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Read the two statements below and choose the correct answer from the four options

Statement A: Passive Remote Sensing uses sun as a source of Energy

Statement B: Active Remote Sensing uses its own source of Energy

Options :

1. Only Statement A is correct
2. Only Statement B is correct
3. Both Statement A & Statement B are correct
4. Both Statement A & Statement B are wrong

Question Number : 34 Question Id : 254528394 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The velocity of Electromagnetic Energy is

Options :

1.  $3 \times 10^8$  m/sec



3.  $2.6 \times 10^8$  km/sec
- 4.

Question Number : 35 Question Id : 254528395 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The reflected energy peak and radiant energy peak of earth occurs at

Options :

1. 0.4  $\mu\text{m}$  and 9.3  $\mu\text{m}$
2. 0.5  $\mu\text{m}$  and 9.7  $\mu\text{m}$
3. 0.5  $\mu\text{m}$  and 9.3  $\mu\text{m}$
4. 0.4  $\mu\text{m}$  and 0.7  $\mu\text{m}$

Question Number : 36 Question Id : 254528396 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The unpredictable diffusion of radiation by particles present in the atmosphere is called

Options :

1. Scattering
2. Absorption
3. Adsorption
4. Transmission

Question Number : 37 Question Id : 254528397 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The reflectance of energy of plant leaves in the NIR region is because of the

Options :

1. Chlorophyll pigment
2. Internal Structure
3. Moisture Content

Question Number : 38 Question Id : 254528398 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

On the infrared image, clear water appears \_\_\_\_\_ in color.

Options :

1. Blue
2. Black
3. White
4. Grey

Question Number : 39 Question Id : 254528399 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

\_\_\_\_\_ has the records of EM radiation within visible region in black, white and shades of grey.

Options :

1. Multispectral image
2. Topographic map
3. Panchromatic image
4. False colour composite

Question Number : 40 Question Id : 254528400 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The expression of object on an image that enables the object to be recognized is called

Options :

1. Detectability
2. Contrast ratio
3. Texture
4. Signature

Question Number : 41 Question Id : 254528401 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

1. Detection time
2. Dwell time
3. Instant Time
4. Intermediate Time

Question Number : 42 Question Id : 254528402 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which scanning mechanism does not use opto-mechanical device?

Options :

1. Pushbroom Scanning
2. Whiskbroom Scanning
3. Circular Scanning
4. Cross track Scanning

Question Number : 43 Question Id : 254528403 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In microwave remote sensing, the \_\_\_\_\_ the antenna, the \_\_\_\_\_ the beam.

Options :

1. longer, narrower
2. shorter, narrower
3. longer, wider
4. shorter, longer

Question Number : 44 Question Id : 254528404 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The \_\_\_\_\_ the backscattered intensity, the \_\_\_\_\_ is the surface being imaged.

Options :

1. higher, rougher



4. wider, softer

Question Number : 45 Question Id : 254528405 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In the electromagnetic spectrum, as the wavelength increases, the frequency \_\_\_\_\_.

Options :

1. increases
2. remains unchanged
3. decreases
4. both are unrelated

Question Number : 46 Question Id : 254528406 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a remote sensing process?

Options :

1. Collecting the information of object without the physical contact
2. Collecting the information of the object by physical contact
3. Collecting the information by sending the acoustic waves on to the object and receiving them back
4. Collecting the information of the object by analyzing the electromagnetic energy emitted by it

Question Number : 47 Question Id : 254528407 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the wave length range of microwave energy in the electromagnetic spectrum?

Options :

1. 0.4  $\mu\text{m}$  to 0.7  $\mu\text{m}$
2. 0.01  $\mu\text{m}$  to 0.1  $\mu\text{m}$

4.

Question Number : 48 Question Id : 254528408 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

As per which law, dominant wavelength at which a blackbody radiation curve reaches a maximum is related to its temperature?

Options :

1. Newton's energy law
2. Planck's quantum law
3. Einstein's energy and mass law
4. Wien's displacement law

Question Number : 49 Question Id : 254528409 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Wavelength ranges in which the atmosphere is particularly transmissive of energy are referred to as

Options :

1. Atmospheric holes
2. Atmospheric doors
3. Atmospheric windows
4. Atmospheric gaps

Question Number : 50 Question Id : 254528410 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Angle of reflection is equal to angle of incidence in \_\_\_\_\_ reflectors.

Options :

1. Diffuse Reflectors
2. Lambertian Reflectors
3. Solid Reflectors



Question Number : 51 Question Id : 254528411 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the latest CARTOSAT satellite launched on 15 February 2017 by ISRO along with 103 other satellites?

Options :

1. CARTOSAT -2B
2. CARTOSAT- 2D
3. CARTOSAT -2C
4. CARTOSAT -2E

Question Number : 52 Question Id : 254528412 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

NDVI is

Options :

1.  $(\text{NIR} - \text{R}) / (\text{NIR} + \text{R})$
2.  $(\text{NIR} - \text{SWIR}) / (\text{NIR} + \text{SWIR})$
3.  $\text{NIR} - \text{R}$
4.  $(\text{NIR} + \text{R}) / (\text{NIR} - \text{R})$

Question Number : 53 Question Id : 254528413 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the full form of the term IFOV used in remote scanning systems?

Options :

1. Indigenous First Orbital Vehicle
2. Instantaneous Field of View
3. Integrated Focused Optical Vision
4. Intermittent Filtered Oriented Vision

Question Number : 54 Question Id : 254528414 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Spatial resolution of IRS-1D LISS III sensor is



2. 20.5 m
3. 10.5 m
4. 15.5 m

Question Number : 55 Question Id : 254528415 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The swath of IRS -ID sensor in Visible and near IR Region

Options :

1. 100-113 km
2. 127-141 km
3. 153-165 km
4. 170-200 km

Question Number : 56 Question Id : 254528416 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

IRS-IC WiFS sensor operates in how many bands?

Options :

1. 5
2. 3
3. 2
4. 1

Question Number : 57 Question Id : 254528417 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The number and dimension of specific wavelength intervals in the electromagnetic spectrum to which sensor is sensitive is referred to as

Options :

1. Temporal Resolution
2. Spatial Resolution

Question Number : 58 Question Id : 254528418 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Deciduous forest land comes under which level of Land Use/Land Cover (LU/LC) classification?

Options :

1. Level-I
2. Level-II
3. Level-III
4. Level-IV

Question Number : 59 Question Id : 254528419 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A graph drawn between wavelength and spectral reflectance is called

Options :

1. Digital signature
2. Wavelength curve
3. Spectral signature
4. Resolution curve

Question Number : 60 Question Id : 254528420 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Thermal Sensors work in \_\_\_\_\_ wavelength regions.

Options :

1. 0.08 - 0.014  $\mu\text{m}$
2. 0.8 - 0.14  $\mu\text{m}$
3. 8 - 14  $\mu\text{m}$
4. 80 - 140  $\mu\text{m}$

Question Number : 61 Question Id : 254528421 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

1.  $6000^{\circ}\text{C}$
2.  $6000\text{ K}$
3.  $6000^{\circ}\text{F}$
4.  $6000\text{ G}$

Question Number : 62 Question Id : 254528422 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Geostationary satellite orbits at an altitude \_\_\_\_\_ km.

Options :

1. 600
2. 22200
3. 36000
4. 200

Question Number : 63 Question Id : 254528423 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following satellites has the highest temporal resolution?

Options :

1. NOAA
2. IRS 1A
3. Landsat 2
4. SPOT 1

Question Number : 64 Question Id : 254528424 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

“K” value in Wien’s displacement law is \_\_\_\_\_.

Options :

1. 100
2. 2897



4. ---

Question Number : 65 Question Id : 254528425 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Ratio of the total solar radiant energy returned by a body to the total solar radiant energy incident on the body is called as

Options :

1. Digital number
2. Albedo
3. Conical reflectance
4. Rayleigh's scattering

Question Number : 66 Question Id : 254528426 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following types of sensors uses a highly focused beam of light?

Options :

1. Radar
2. Sonar
3. Lidar
4. GPR

Question Number : 67 Question Id : 254528427 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The repetitivity of satellite provides \_\_\_\_\_ resolution.

Options :

1. Spatial
2. Spectral
3. Radiometric

Question Number : 68 Question Id : 254528428 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following features shows a very high reflection among all?

Options :

1. Snow
2. Dry soil
3. Vegetation
4. clear water

Question Number : 69 Question Id : 254528429 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following satellites possesses a high spectral resolution?

Options :

1. Landsat 3
2. Spot 4
3. MODIS
4. Cartosat 1

Question Number : 70 Question Id : 254528430 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

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

Options :

1. constant in time only
2. constant in space only
3. constant in both time and space
4. constant either in time or in space

Question Number : 71 Question Id : 254528431 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is an Indian Radar satellite?

Options :

2. -----
3. RISAT
4. SIR -A

Question Number : 72 Question Id : 254528432 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The first remote sensing satellite of India is

Options :

1. Rohini
2. SROSS
3. Bhaskara I
4. Aryabhatta

Question Number : 73 Question Id : 254528433 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is the Japanese SAR satellite?

Options :

1. JERS 1
2. ERS 1
3. Envisat
4. Surveyor SAR

Question Number : 74 Question Id : 254528434 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not an error due to flight movement?

Options :

1. Pitch
2. Yaw
3. Roll



Question Number : 75 Question Id : 254528435 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Terrain elevation data from \_\_\_\_\_ satellite is freely available.

Options :

1. SRTM
2. IKONOS
3. IRS 1D
4. Worldview

Question Number : 76 Question Id : 254528436 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What scale of measurement is used to represent areas in maps?

Options :

1. Nominal scale
2. Interval scale
3. Ratio scale
4. Ordinal scale

Question Number : 77 Question Id : 254528437 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

GIS deals with which kind of data?

Options :

1. Numerical Data
2. Spatial Data
3. Binary Data
4. Image Data

Question Number : 78 Question Id : 254528438 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a primitive element of vector model?

2. Pixel
3. Line
4. Polygon

Question Number : 79 Question Id : 254528439 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Data that describes the characteristics of spatial features is called as \_\_\_\_\_.

Options :

1. Functional data
2. Nominal Data
3. Real Data
4. Attribute Data

Question Number : 80 Question Id : 254528440 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a vector model?

Options :

1. Shape file
2. Coverage
3. Grid
4. TIN

Question Number : 81 Question Id : 254528441 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

\_\_\_\_\_ is the study of those properties of geometric objects that remain invariant under certain transformations such as bending or stretching.

Options :

1. Topology
2. Numerology

7.

Question Number : 82 Question Id : 254528442 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is meant by record in a relational database?

Options :

1. Row in a table that represents spatial feature
2. Column in a table that represents spatial feature
3. One Cell in table that represents spatial feature
4. Table that represent spatial feature

Question Number : 83 Question Id : 254528443 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Selection of features that are within the specified distance of features is termed as

Options :

1. Containment
2. Proximity
3. Intersect
4. Adjacency

Question Number : 84 Question Id : 254528444 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

\_\_\_\_\_ represents the regular array of elevation points.

Options :

1. TIN
2. BIM
3. DEM
4. SEM

Question Number : 85 Question Id : 254528445 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical



1. Slivers
2. Residues
3. Nuggets
4. Node-Arcs

Question Number : 86 Question Id : 254528446 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Buffering around point features creates \_\_\_\_\_ buffer zone.

Options :

1. Square
2. Trapezoidal
3. Ellipsoidal
4. Circular

Question Number : 87 Question Id : 254528447 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

An overlay method that preserves only those features falling within the area extent common to input layers is called as \_\_\_\_\_.

Options :

1. Intersection
2. Union
3. Identity
4. Symmetrical Difference

Question Number : 88 Question Id : 254528448 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the query language used to analyze the attribute data tables in GIS?

Options :

2. MQL
3. GML
- 4.

Question Number : 89 Question Id : 254528449 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is an example for open source GIS software?

Options :

1. ArcGIS
2. MapInfo
3. AutoCAD Map
4. QGIS

Question Number : 90 Question Id : 254528450 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Conversion of vector file into square grids is called

Options :

1. Topology creation
2. Vectorization
3. Rasterization
4. Spatial-Randomization

Question Number : 91 Question Id : 254528451 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is the ISRO/NRSC developed WebGIS platform?

Options :

1. Google Earth
2. Digital Globe

4.

Question Number : 92 Question Id : 254528452 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is meant by "MetaData" in GIS terminology?

Options :

1. Information about GIS software
2. Information about geospatial data
3. Attribute information of fields
4. Remote sensing data

Question Number : 93 Question Id : 254528453 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

What is the data type used in topological linkages?

Options :

1. Whole numbers
2. Real numbers
3. Boolean numbers
4. Float numbers

Question Number : 94 Question Id : 254528454 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A GIS model that emphasizes the changes of spatial data over time and interactions between the variables is \_\_\_\_\_ model.

Options :

1. Statistical
2. Static
3. Dynamic
4. Descriptive



WHAT IS THE FULL FORM OF TIN USED IN GIS ?

Options :

1. Triangulated Information Network
2. Triangulated Irregular Network
3. Tetrahedron Integrated Network
4. Topological Information Network

Question Number : 96 Question Id : 254528456 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A linear feature that allows linear measures to be used on projected coordinate systems is called as \_\_\_\_\_.

Options :

1. Path
2. Route
3. Beam
4. High Way

Question Number : 97 Question Id : 254528457 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of following vector files doesn't contain a topology?

Options :

1. Shape file
2. Coverage file
3. TIGER file
4. Metadata file

Question Number : 98 Question Id : 254528458 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

1. Isobar map
2. Isocline map
3. Isohyetal map
4. Isodaphane map

Question Number : 99 Question Id : 254528459 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Spatial databases are also called as

Options :

1. Geo-databases
2. Mono-databases
3. Concurrent databases
4. Coherent databases

Question Number : 100 Question Id : 254528460 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Topological Errors are associated with

Options :

1. Raster Data
2. Vector Data
3. Coverage Data
4. Attribute Data

Question Number : 101 Question Id : 254528461 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Line Simplification is carried out by

Options :

2. Fuzzy Tolerance
3. Edging Algorithm
- 4.

Question Number : 102 Question Id : 254528462 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which one of the following is not a resampling technique?

Options :

1. Nearest Neighbor
2. Bilinear Interpolation
3. Cubic Convolution
4. Krigging

Question Number : 103 Question Id : 254528463 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The attribute data describing different categories of data such as LU/LC and soil types is called as

Options :

1. Ordinal data
2. Categorical data
3. Nominal data
4. Numeric data

Question Number : 104 Question Id : 254528464 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Turn table consists of

Options :

1. Turn angle
2. Turn Impedance



4.

Question Number : 105 Question Id : 254528465 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Index model generates ranked map based on

Options :

1. Index values
2. Pyramidal values
3. Weightages
4. Calibrated values

Question Number : 106 Question Id : 254528466 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which of the following is not a GIS package?

Options :

1. Arc GIS
2. MapInfo
3. IDRISI32
4. Netscape

Question Number : 107 Question Id : 254528467 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Which distance is related to GIS?

Options :

1. Ramanujan distance
2. Pythagorean distance
3. Euclidean distance
4. Marks distance

**Options :**

1. Crystal
2. Raster
3. Segment
4. Polygon

**Question Number : 109 Question Id : 254528469 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

Three dimensional picture element is called

**Options :**

1. Pascal
2. Tixel
3. Pixel
4. Voxel

**Question Number : 110 Question Id : 254528470 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

The ratio between the pixel size on the image and the corresponding ground cell is referred as

**Options :**

1. Magnitude
2. Scale
3. Texture
4. Association

**Question Number : 111 Question Id : 254528471 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

**Options :**

1. Inverted files
2. Reverted files
3. Direct files
4. Converted files

**Question Number : 112 Question Id : 254528472 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

\_\_\_\_\_ are used to model real world structures.

**Options :**

1. Logical models
2. Linear models
3. Numerical models
4. Differential models

**Question Number : 113 Question Id : 254528473 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

Relational database cannot solve the queries formulated using \_\_\_\_\_ operations.

**Options :**

1. Boolean
2. Logical
3. Numerical
4. Random

**Question Number : 114 Question Id : 254528474 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical**

Which is not an example of hierarchical region?

**Options :**

1. Census units



3. Ecological units

4. Elevation units

Question Number : 115 Question Id : 254528475 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

The whole-part relationship between classes is described by

Options :

1. Association

2. Aggregation

3. Composition

4. Instantation

Question Number : 116 Question Id : 254528476 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

A \_\_\_\_\_ has a built in electronic mesh, which can sense the position of cursor.

Options :

1. Differential table

2. Mapping table

3. Scanning table

4. Digitizing table

Question Number : 117 Question Id : 254528477 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

\_\_\_\_\_ is a process by which a layer is distorted to allow it to be seamlessly joined to an adjacent geographic layer or imagery.

Options :

1. Georeferencing

3. Map Projection

4. Sliver

Question Number : 118 Question Id : 254528478 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

In the design of a water supply system of a city, the end of the pipe line is shown by

Options :

1. Pseudo node

2. Dangling node

3. Vertices node

4. Hanging node

Question Number : 119 Question Id : 254528479 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

Variation of simple choropleth map is called as

Options :

1. Dasymetric map

2. Isarithmic map

3. Chart map

4. Bar map

Question Number : 120 Question Id : 254528480 Display Question Number : Yes Single Line Question Option : No Option Orientation : Vertical

\_\_\_\_\_ deals with the arrangement and composition of various map elements.

Options :

1. Visual hierarchy

2. Contrast

3. Positional Information

