

GIS Analysis Job Interview Questions And Answers



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GIS Analysis Interview Questions And Answers Guide.

Question - 1:

Do you know the role of GPS in GIS?

Ans:

Competent decisions can only be rendered by reliable data and though GIS is an amazing data management tool, using it with GPS helps in validating the data analysis and results.

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Question - 2:

What is remote sensing?

Ans:

Remote sensing refers to detection and classification of objects on or in earth without physical contact, generally attained through aerial sensors.

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Question - 3:

What are GIS tools?

Ans:

GIS tools on the other hand require interaction with the map canvas.

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Question - 4:

What are GIS commands?

Ans:

Commands do not require interaction with the map, they just rely on surface.

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Question - 5:

Do you know the top 5 skills in GIS?

Ans:

Skills in spatial data handling, algorithms, data conversion, model building and database programming.

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Question - 6:

What is geo-referencing?

Ans:

Geo-referencing is the process of associating plain digital images taken from a satellite or a plane with map coordinates so that they can be overlaid on street maps.

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Question - 7:

What is geo-coding?

Ans:

Geo-coding is when you associate a place name or an address with map coordinates.

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Question - 8:



Do you know the name of two data structures that have the capacity to hold spatial data?

Ans:

The two data structures that can hold spatial data include raster and vector.

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Question - 9:

Do you know what is the basic work of a GIS technician?

Ans:

A GIS technician works closely with end users to identify GIS data requirements and handle technical issues. It is also the job of a GIS technician to manage data maintenance and manipulation and handle extraction activities along with ensuring preparation, planning and updating a variety of maps and drawings to be part of a GIS database.

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Question - 10:

ZVI is the abbreviation for Zone of Varying Intensity.

Ans:

* 1. True

* 2. False

False

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Question - 11:

Ray tracing is a technique used in network analysis.

Ans:

* 1. True

* 2. False

False

[View All Answers](#)

Question - 12:

Slope can be calculated from the formula $S = b_2 - c_2$.

Ans:

* 1. True

* 2. False

False

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Question - 13:

The most common use of Thiessen's Polygons is to create contour lines.

Ans:

* 1. True

* 2. False

False

[View All Answers](#)

Question - 14:

Exact interpolation methods are so called because they give very accurate results.

Ans:

* 1. True

* 2. False

False

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Question - 15:

It is an ecological fallacy to assume that all the individuals within a defined area have the same level of income.

Ans:

* 1. True

* 2. False

True

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Question - 16:

The Jordan method used for point in polygon analysis is also known as the Intersect method.



Ans:

- * 1. True
 - * 2. False
- False

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Question - 17:

Filtering could be used to smooth noisy data caused by problems with data collection devices.

Ans:

- * 1. True
 - * 2. False
- True

[View All Answers](#)

Question - 18:

Filtering is used on raster data to change the value of a cell based on the attributes of neighboring cells.

Ans:

- * 1. True
 - * 2. False
- True

[View All Answers](#)

Question - 19:

A buffer zone around a point feature will be a circle.

Ans:

- * 1. True
 - * 2. False
- True

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Question - 20:

For the Happy Valley ski resort example, which GIS analyses could be used to determine which hotels are within 200m of a main road.

Ans:

- * 1. Union overlay and line-in-polygon overlay
 - * 2. Buffer analysis and erase overlay
 - * 3. Buffer and point-in-polygon overlay
 - * 4. Intersect overlay and buffer analysis
 - * 5. Proximity analysis and reclassification
- Proximity analysis and reclassification
Buffer and point-in-polygon overlay

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Question - 21:

What is the possible number of combinations in which a delivery van can visit five different points on a network?

Ans:

- * 1. 25
 - * 2. 120
 - * 3. 10
 - * 4. 3125
- 120

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Question - 22:

What is location-allocation modelling?

Ans:

- * 1. A method of site location based on overlaying multiple siting criteria maps.
 - * 2. A method of allocating resources within an area of interest using buffer analyses
 - * 3. A method of matching supply with demand across a network by locating a limited set of resources using network analysis
 - * 4. A method within network analysis used to determine delivery routes
- A method of matching supply with demand across a network by locating a limited set of resources using network analysis

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Question - 23:

What is the difference between slope and aspect?

Ans:

- * 1. Slope is the gradient directly down the fall line, while aspect is the direction of the fall line relative to north.



- * 2. Slope is the direction of the fall line, while aspect is the gradient of the fall line.
 - * 3. Slope is the distance down the fall line from the top of the slope to its bottom, while aspect is the percentage gradient of this line averaged over its full distance.
 - * 4. Slope is the gradient of the fall line relative to vertical, while aspect is the direction of the fall line relative to the line of greatest slope.
- Slope is the gradient directly down the fall line, while aspect is the direction of the fall line relative to north.

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Question - 24:

Which of the following spatial interpolation techniques is an example of a local, exact, abrupt, and deterministic interpolator?

Ans:

- * 1. Thiessen polygons
 - * 2. TIN
 - * 3. Spatial moving average
- Thiessen polygons

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Question - 25:

What is Manhattan distance?

Ans:

- * 1. The distance between two points in a raster data layer calculated as the number of cells crossed by a straight line between them.
 - * 2. The distance between two points in a vector data layer calculated as the length of the line between them.
 - * 3. The distance between two points in a raster data layer calculated as the sum of the cell sides intersected by a straight line between them.
- The distance between two points in a raster data layer calculated as the sum of the cell sides intersected by a straight line between them.

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Question - 26:

What is reclassification?

Ans:

- * 1. The process of combining one or more data ranges into a new data range to create a new data layer.
 - * 2. The process of combining two or more data layers
 - * 3. The process of simplifying data in a data layer
 - * 4. An analytical technique based on point data.
- The process of combining one or more data ranges into a new data range to create a new data layer.

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Question - 27:

Which of the following could you use a buffer operation?

Ans:

- * 1. Calculating the distance from one point to another
 - * 2. Calculating the area of overlap between two polygon data layers
 - * 3. Determining the area within a set distance from a point, line or area feature
 - * 4. Calculating the number of observations within a set distance of a point, line or area feature
- Determining the area within a set distance from a point, line or area feature
Calculating the number of observations within a set distance of a point, line or area feature

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Question - 28:

Which of the following overlay methods would you use to calculate the length of road within a forest polygon?

Ans:

- * 1. Erase
 - * 2. Union
 - * 3. Line-in-polygon
 - * 4. Point-in-polygon
- Line-in-polygon

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Question - 29:

What is point-in-polygon overlay?

Ans:

- * 1. A method interpolating point data
 - * 2. An overlay method used to determine which points lay within the boundary of a polygon
 - * 3. An overlay method used to determine the distance between a point and its nearest neighboring polygon
 - * 4. An overlay method used to reclassify polygon data
- An overlay method used to determine which points lay within the boundary of a polygon

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Question - 30:

Assuming a pair of binary raster data layers, which of the following could be used as the equivalent of a Boolean AND overlay in cartographic modelling?



Ans:

- * 1. Layer 1 - layer 2
- * 2. Layer 1 + layer 2
- * 3. Layer 1 / layer 2
- * 4. Layer 1 * layer 2

Layer 1 - layer 2

Layer 1 + layer 2

Layer 1 * layer 2

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Question - 31:

Which of the following are considered the main problems facing overlay operations in GIS?

Ans:

- * 1. Selecting threshold criteria
- * 2. Topological inconsistencies
- * 3. The Modifiable Areal Unit Problem (MAUP)
- * 4. Processing overheads
- * 5. Visual complexity

Selecting threshold criteria

The Modifiable Areal Unit Problem (MAUP)

Visual complexity

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Question - 32:

What is spatial interpolation?

Ans:

- * 1. The process of establishing values for areas outside the boundary of an existing set of data points.
 - * 2. The process of modelling spatial pattern from a set of one or more data layers
 - * 3. The process of establishing values for areas between an existing set of discrete observations
 - * 4. The process of establishing a statistical relationship between two spatially correlated variables
- The process of establishing values for areas between an existing set of discrete observations.

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