

GIS Interview Questions And Answers Guide.



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GIS Job Interview Preparation Guide.

Question # 1

What is GIS?

Answer:-

A geographic information system (GIS) is a computer system designed to capture, store, manipulate, analyze, manage, and present all types of spatial or geographical data. The acronym GIS is sometimes used for geographical information science or geospatial information studies to refer to the academic discipline or career of working with geographic information systems and is a large domain within the broader academic discipline of Geoinformatics. What goes beyond a GIS is a spatial data infrastructure, a concept that has no such restrictive boundaries.

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Question # 2

What is GIS technologies?

Answer:-

Modern GIS technologies use digital information, for which various digitized data creation methods are used. The most common method of data creation is digitization, where a hard copy map or survey plan is transferred into a digital medium through the use of a CAD program, and geo-referencing capabilities.

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Question # 3

What is hydrological modeling?

Answer:-

GIS hydrological models can provide a spatial element that other hydrological models lack, with the analysis of variables such as slope, aspect and watershed or catchment area.

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Question # 4

What is Geostatistics?

Answer:-

Geostatistics is a branch of statistics that deals with field data, spatial data with a continuous index. It provides methods to model spatial correlation, and predict values at arbitrary locations (interpolation).

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Question # 5

What is spatial ETL?

Answer:-

Spatial ETL tools provide the data processing functionality of traditional Extract, Transform, Load (ETL) software, but with a primary focus on the ability to manage spatial data. They provide GIS users with the ability to translate data between different standards and proprietary formats, whilst geometrically transforming the data en route.

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Question # 6

What is GIS data mining?

Answer:-

GIS or spatial data mining is the application of data mining methods to spatial data. Data mining, which is the partially automated search for hidden patterns in large databases, offers great potential benefits for applied GIS-based decision making. Typical applications including environmental monitoring. A characteristic of such applications is that spatial correlation between data measurements require the use of specialized algorithms for more efficient data analysis.

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Question # 7

What is a geographic information system?

Answer:-

GIS is a system of computer software, hardware, data, procedures and personnel combined to help, manipulate, analyze, and present information that is tied to a geographic location.

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Question # 8

Do you know which software does DC GIS use?

Answer:-

The District GIS software standards consist of the Environmental Systems Research Institute Inc. (ESRI) products and Google Inc. geospatial services and software. The ESRI standard includes the ArcGIS line of desktop and server software product lines. The Google standard includes the Google Earth Enterprise line of server side products and Google Maps for mash-up type applications. Other geospatial software packages and vendors can be accommodated if necessary to meet specific business requirements.

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Question # 9

GIS interview questions part 1:

Answer:-

- * What in the world is a 'GIS'?
- * What colleges and universities offer coursework in GIS?
- * What are the NCGIA anon ftp sites and what can be found there?
- * Where is that On-Line GIS Bibliography (and what's in it)?

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Question # 10

GIS interview questions part 2:

Answer:-

- * What are the United States map accuracy standards?
- * What is the Vector Product Format and where can I get information?
- * What is this SDTS thing and is it available via ftp?
- * What is a DXF file and where can I get info about it?
- * What is DEM and where can I find out about some?
- * Where can I get information about TIGER/Line?
- * How do I order USGS maps?

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Question # 11

GIS interview questions part 3:

Answer:-

- * What is the Digital Chart of the World (DCW) and how do I get one?
- * Is there a package available to convert from UTM to latitude/longitude?
- * Does a file exists of lat/lons for US cities?
- * Where can I get old antique maps?
- * Is there a standard for representing latitude and longitude?
- * Has anyone compiled a list of standards and formats?

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Question # 12

GIS interview questions part 4:

Answer:-

- * What are some other related mailing lists, ftp sites and internet sources for useful resources?
- * Hey! But how do I subscribe to GIS-L, MAP-L, etc?
- * What are some books and magazines available on GIS?
- * Where can I get a copy of the Spatiotemporal Bibliography?
- * What professional organizations are out there for GISers?
- * What are some journal titles which carry GIS articles?

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Question # 13

GIS interview questions part 5:

Answer:-

- * How can I subscribe to the Int'l Journal of GIS?
- * What are some World Wide Web URLs for GIS information?
- * Where can I find pointers to satellite data?
- * Are any mailing lists archived anywhere?
- * Can you recommend any other resource documents?



* Can you point me towards some on-line job resources?

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Question # 14

GIS interview questions part 6:

Answer:-

- * What are some algorithms for calculating the distance between 2 points?
- * What is GPS?
- * What can you tell me about map projections?

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Question # 15

GIS interview questions part 7:

Answer:-

- * What are e-mail and paper addresses of some vendors?
- * What public domain or shareware GIS software is available and where is it?
- * Will GRASS run under LINUX OS on my PC?
- * How can I convert ARC files to IDRISI?
- * How can I convert ARC coverages to GRASS?
- * Where can I find some AMLs to look at?
- * How can I convert ARC files to some other graphics formats?
- * How do Arc/Info and Intergraph MGE compare?

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Question # 16

What is a cartogram?

Answer:-

1. A map drawn by using CAD/CAM tools
2. A form of map drawn by using Braille for the visually impaired
3. A form of map where objects are drawn using non-Euclidean coordinates
4. A form of map based on photogrametric principles.

A form of map where objects are drawn using non-Euclidean coordinates

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Question # 17

Which of the following is not an example of a class interval system used in choropleth mapping?

Answer:-

1. Extremities
2. Equal interval
3. User-specified
4. Percentiles
5. Quartiles

Extremities

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Question # 18

What is chart junk?

Answer:-

1. Unreadable maps and graphs
2. Unnecessary detail around maps and diagrams
3. Awful pop music.
4. Incorrect plots generated by GIS.

Unnecessary detail around maps and diagrams

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Question # 19

What does the abbreviation VRML stand for?

Answer:-

1. Visual Resource Markup Language
2. Virtual Reality Modelling Language
3. Visual Relationship Modelling Language
4. Virtual Reality Markup Language

Virtual Reality Modelling Language

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Question # 20

What is a linked display?



Answer:-

1. A pilot's head-up cockpit display
2. A mobile GIS consisting of PDA and mobile phone
3. A set of graphs and maps where items are linked in separate displays
4. A set of linked tables displayed in a RDBMS.

A set of graphs and maps where items are linked in separate displays

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Question # 21

Which of the following are examples of non-cartographic output?

Answer:-

1. GPS coordinate plots
2. Charts
3. Tables
4. Dynamically linked graphs
5. Thematic maps

Charts, Tables and Dynamically linked graphs

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Question # 22

Which of the following are important characteristics of a SDSS?

Answer:-

1. They are easy to use
2. They do not require user intervention
3. They incorporate spatially explicit models
4. They are designed to make full use of available data
5. They are designed to handle exclusively spatial data

They are easy to use.

They incorporate spatially explicit models.

They are designed to make full use of available data

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Question # 23

GIS output can include graphs and tables?

Answer:-

1. True
2. False

True

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Question # 24

You should always include as much information as possible in a map?

Answer:-

1. True
2. False

False

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Question # 25

A thematic map that displays a quantitative attribute using ordinal classes is called a choropleth map?

Answer:-

1. True
2. False

True

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Question # 26

If data are divided so that an equal number of observations fall into each class this is referred to as an equal interval classification system?

Answer:-

1. True
2. False

False

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Question # 27

A cartogram shows the location of objects using standard Euclidean co-ordinates?



Answer:-

1. True
 2. False
- False

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Question # 28

3D mapping can be used in socio-economic applications such as population or retail studies?

Answer:-

1. True
 2. False
- True

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Question # 29

GUI is the acronym for Graphical User Interface?

Answer:-

1. True
 2. False
- True

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Question # 30

Maps from GIS can be output to mobile devices such as PDAs?

Answer:-

1. True
 2. False
- True

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Question # 31

In a linked display, any action taken in one window will be reflected in other windows on the screen?

Answer:-

1. True
 2. False
- True

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Question # 32

The development of a city could be revealed using an animated series of maps?

Answer:-

1. True
 2. False
- True

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Question # 33

What is the bench marking with regards to gis application?

Answer:-

No Answer is Posted For this Question

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