

By OnlineInterviewQuestions.com

Cyient GIS Interview Questions

Q1. What is GIS?

Geographic information system (GIS) is a system planned to capture, amass, maneuver, analyze, administer, and present all types of geographical data. GIS applications are tools that allow users to produce interactive queries, examine spatial information, edit data in maps, and offer the outcome of all these procedures. GIS or GI Science working as the science underlying geographic notions, applications, and method includes both hardware and software systems. These applications comprise cartographic, photographic, and digital data or data in spreadsheets. GIS can use any information that includes location. The site can be articulated in many different ways, such as latitude and longitude, address, or ZIP code.

Q2. List some computer shortcuts?

A computer shortcut is a set of keys which can be one or more meant to invoke a command in software or an operating system. And to increase one's efficiency by invoking commands with keyboard keys.

Some shortcuts are:

- **Alt + E**- helps to edit in the existing program.
- **F1**- works as the universal help for programs.
- **Ctrl + A**- To select the text.
- **Ctrl + X**- To cut the chosen item.
- **Ctrl + Del**- To delete preferred item.
- **Ctrl + C**- To copy the selected item.
- **Alt +F4** – To close the running program.
- **Ctrl + V**- To paste the selected item.
- **Ctrl+S**- To save the document
- **End** - To go to the end of the current line.

Q3. What are fossil fuels?

Fossil fuels are a class of hydrocarbon-containing materials present inside Earth's outer layer that works as the source of energy. Coal, crude oil, and natural gas are the eminent fossil fuels produced from the fossilized, concealed remnants of plants and animals that lived millions of years ago. They were created as a result of geologic processes that acted on the remains of the natural resource produced in the process of photosynthesis and the process is believed to have begun in the Archean Eon. Because of the process of their origin fossil fuels contain a high amount of carbon content. Some commonly derived products from fossil fuels are kerosene and

propane.

Q4. Tell me some GIS softwares that you are familiar?

GIS software is very helpful while locating the exact geographical positions for land management and LIDAR analysis. They include a wide range of applications that have a combination of digital maps and georeferenced data. They can be crucial in terms of business as the software allows a person to pan, zoom and tilt the map according to their needs.

Some of the best GIS software I know are

- Esri Arc GIS
- Arc GIS online
- Google Earth Pro
- Google Maps API
- Map info pro
- Maptitude
- Surfer
- QGIS
- Google Beacon Platform
- Auto CAD Map 3D
- Google places
- Map viewer
- Oracle Spatial
- Global Mapper
- GRAS16. Maptitude
- Manifold GIS

Q5. What is LIDAR?

LIDAR stands for **Light Detention And Ranging** is a remote sensing method that utilizes pulsed lasers to measure ranges spread within the variable distance of the Earth. These pulses combined with the recorded data of the airborne system generate 3D information about the Earth's atmosphere. The data gathered by LIDAR is precise and efficient, collected through its specialized scanner, laser, and a distinct GPS. Usually, helicopters and planes use these techniques. The LIDAR is categorized into two types Topographic and bathymetric used to determine land, seafloors, and riverbeds. The system further allows scientists to accurately examine both natural and man-made environments with flexibility.

Q6. Algorithm to get distance between two points?

The algorithm to find the distance between two points is as follows.

```
#include <bits/stdc++.h>
```

```

Using namespace STD;
// Calculation of the distance
float distance(int x1, int y1, int x2, int y2)
{
    // calculating the distance
    return sqrt(pow(x2 - x1, 2) +
pow(y2 - y1, 2) * 1.0);
}
// Code of the Drivers
int main()
{
    cout << distance(3, 4, 4, 3);
    return 0;
}

```

Q7. What do you know about DCW?

DCW is a chemical company that is based in India and is one of the top manufacturing companies for soda ash, caustic soda, and PVC resin. Through the division of the SIOP, DCW performs only in the chemical segment only. DCW can produce over 150,000 tons of industrial salt every year for captive consumption. SCW also includes a 36 megawatts captive power plant in India.

Q8. What is Data mining in GIS?

Geographical Information System (GIS) stores data collected from assorted sources in varied formats. They are stored in the form of geodatabases concerning the latitude and longitudinal positions of the land, oceans, forests and other natural resources. While Data mining in GIS is the computerized process of determining patterns in data.

The purpose of Data mining is to find the connection between the various datasets that are unanticipated. The best example of data mining is the flow of Supermarket chains who use it to increase their sales by locating correlations in consumer buying practices. Therefore, Data Mining can be useful for scientific research, finance, fraud detection, mining, sports, etc.

Q9. What do you know about hydrological modelling?

A **hydrologic model** is a simplification of the natural source like surface water, soil water, wetland, groundwater, etc. They can be used to find the shock of human activities and the effects of climate changes on precious water resources. Hydrological models can also be used in effective predicting tools that predict river absolute for short to medium time horizons. The development can be determined through the proper data collection, processing, concepts, theories, computation, and model results. This process abets in understanding, forecasting, and supervising the essential water resources on Earth. The forecasting systems benefit from the incorporation of all the existing data and remote sensing data.

Q10. What are the top skills that a Gis Technician have?

GIS technicians need to have a special set of works to perform his job efficiently. He utilizes the Geographic Information System tools to text variables in specific geographical areas to be used in reports and articles. He needs to help the other GIS analysts with the concerned projects and tasks to help in designing and developing databases. He must be expertise in visual analyzing, performing data research, drawing maps and troubleshooting. GIS technicians must have the stamina and indulgent to travel to the site to gather precise and proper data for further examination.

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