

>>>> General Questions :

1. What is GIS?

> GIS (Geographic Information System) is a tool used to store, analyze, and display geographic data.

2. What is the difference between raster and vector data?

> Raster data is made of pixels (like images), while vector data consists of points, lines, and polygons.

3. What is CRS (Coordinate Reference System) in GIS?

> CRS defines how the map data aligns with the real-world locations on Earth.

4. What is WGS 84, and why is it used?

> WGS 84 is a global coordinate system used in GPS and GIS for accurate mapping.

5. What is georeferencing?

> It is the process of aligning map data to real-world coordinates.

6. What is the purpose of a legend in GIS?

> A legend explains the symbols and colors used on a map.

7. What is a shapefile (.shp)?

> It is a common GIS file format that stores vector data like points, lines, and polygons.

8. What are plugins in QGIS?

> Plugins add extra features to QGIS, like data analysis tools.

9. What is spatial analysis?

> It is the process of analyzing locations, patterns, and relationships in GIS data.

10. What is the importance of scale in GIS?

> Scale determines the level of detail shown on a map.

>>>> **Practical Slips Questions :**

11. How do you create a layer in QGIS?

> Go to Layer → Create Layer, select the type (Point, Line, or Polygon), and define attributes.

12. How do you add labels to a map in QGIS?

> Right-click on the layer → Properties → Labels → Enable and customize the text.

13. How do you import a CSV file in QGIS?

> Use Layer → Add Layer → Add Delimited Text Layer, then select the file and CRS.

14. What is raster mosaicking?

> It combines multiple raster images into one seamless image.

15. What is raster clipping?

> It cuts a specific area from a raster layer based on a selected boundary.

16. What is Nearest Neighbor Analysis in GIS?

> It finds the closest feature (like an earthquake-prone area) to a given location.

17. How do you change the color and size of markers in QGIS?

> Go to Layer Properties → Symbolology, then adjust color and size.

18. How do you calculate the total number of earthquakes in a country using GIS?

> Use Attribute Table → Field Calculator to count occurrences.

19. How do you add roads and railway tracks in QGIS?

> Create a Line Layer and manually draw the roads and tracks.

20. How do you export a final map from QGIS?

> Use Layout Manager → Add Map → Export as Image/PDF.