

GIS Final Exam | 101 QUESTIONS AND ANSWERS 2023/24

GIS - Computerized systems designed for the storage, retrieval, and analysis of geographically referenced data.

ArcGIS - Advanced analysis and geoprocessing tools

Map layer - Collection of geographic objects that are alike

Vector data - Collection of points, lines & polygons

Raster data - Matrix of identical square cells, formed into a grid

1. GIS - Computerized systems designed for the storage, retrieval, and analysis of geographically referenced data.

2. ArcGIS - Advanced analysis and geoprocessing tools

3. Map layer - Collection of geographic objects that are alike

4. Vector data - Collection of points, lines & polygons

5. Raster data - Matrix of identical square cells, formed into a grid

6. Feature - (specific object) location, shape & size

7. Feature class - groups of similar features (point/line/polygon/annotation)

8. Feature attribute - description of a feature

9. Geodatabase - a "container" used to hold a collection of GIS datasets

10. Map document - show data and all of its details in one frame for one to see.

11. ArcCatalog - The program you use to organize and manage these various datasets and documents in both file-based workspaces and in geodatabases.

12. ArcToolbox - A user interface in ArcGIS used for accessing, organizing, and managing a collection of geoprocessing tools, models, and scripts.

1. What are the timeline and highlights in the evolution of GIS? - 1960s - Tomlinson develops first computerized GIS system, Dangermond founds ESRI, 60s & 70s - GPS is created by the DoD, 80s & 90s - Desktop GIS apps are released, now - mobile GIS and GIS web solutions

2. Who is responsible for developing the first computerized GIS and is known as the father of GIS? - Roger Tomlinson

3. Who founded Environmental Systems Research Institute (ESRI)? - Jack Dangermond

4. Describe and distinguish vector data and raster data. - Vector - Collection of points, lines & polygons, Raster - Matrix of identical square cells, formed into a grid

1. Diverging color scheme - shared neutral color to darker colors (natural midpoints, simul hi/low points), no b&w print

2. Sequential color scheme - single hue (lower data w/ light color) (heighten hi values, b&w print)

3. Qualitative color scheme - diff in hue -> diff in numbers (qual values/ values w/ no order)

4. Choropleth map - color coded w/ numerics

5. Quantile class intervals - classes by quantile

6. Equal class intervals - classes by subrange

7. Graduated point markers - x

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Michael Rajnik



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