



قائمة الاسئلة

امتحان نهاية الفصل الدراسي الثاني - للعام الجامعي 1446 هـ - الموافق 2025/2024 م - كلية الحاسوب وتكنولوجيا المعلومات :: نظم معلومات
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- 1) Which of the following is a common format for raster data?
 - 1) ☒ TIFF
 - 2) ☐ CSV
 - 3) ☐ SQL
 - 4) ☐ XML
- 2) Spatial data describes the location and shape of geographic features.
 - 1) ☒ TRUE.
 - 2) ☐ FALSE.
- 3) Large-scale maps show more detail but cover smaller parts of the earth.
 - 1) ☒ TRUE.
 - 2) ☐ FALSE.
- 4) The intersect spatial operation computes the union of features that overlap in all layers.
 - 1) ☐ TRUE.
 - 2) ☒ FALSE.
- 5) What does the geoid surface represent?
 - 1) ☐ perfectly flat Earth
 - 2) ☒ The mean sea level surface across the Earth
 - 3) ☐ The distance between satellites
 - 4) ☐ The geographic coordinates
- 6) Yemen is on zone
 - 1) ☐ 35
 - 2) ☐ 36
 - 3) ☐ 37
 - 4) ☒ 38
- 7) Which projection is known for minimal distortions at large and medium scales?
 - 1) ☐ Mercator projection
 - 2) ☒ UTM (Universal Transverse Mercator)
 - 3) ☐ Robinson projection
 - 4) ☐ Peters projection
- 8) What is the primary function of the GPS (Global Positioning System)?
 - 1) ☐ To provide weather forecasts
 - 2) ☒ To locate a specific point on Earth using satellite data
 - 3) ☐ To measure ocean depth
 - 4) ☐ To display maps of political boundaries
- 9) Topographic maps use different colors to represent various land features such as water bodies, and elevation.
 - 1) ☒ TRUE.
 - 2) ☐ FALSE.
- 10) What is the actual shape of the Earth?
 - 1) ☐ Sphere
 - 2) ☐ Cube
 - 3) ☒ Spheroid
 - 4) ☐ Flat
- 11) Which map projection is best for East-West land areas?
 - 1) ☐ Azimuthal Projection
 - 2) ☐ Cylindrical Projection



- 3) ☒ + Conic Projection
- 4) ☐ - Orthographic Projection
- 12) What is the primary characteristic of remote sensing?
 - 1) ☐ - Direct contact with the object being measured
 - 2) ☒ + Collection of data about objects without physical contact
 - 3) ☐ - Use of mechanical devices for measurement
 - 4) ☐ - Use of only visible light for measurement
- 13) The tool that used for specify the shortest path is called
 - 1) ☐ - Geometric Analysis
 - 2) ☒ + Network Analysis
 - 3) ☐ - Spatail Analysis
 - 4) ☐ - 3D Analysis
- 14) Aerial photography is performed using cameras that sense in which part of the electromagnetic spectrum?
 - 1) ☒ + Ultraviolet, visible, and near-infrared
 - 2) ☐ - X-ray and microwave
 - 3) ☐ - Radio waves and gamma rays
 - 4) ☐ - All parts of the electromagnetic spectrum
- 15) Which of the following best describes the concept of "topology" in GIS?
 - 1) ☒ + The relationship between spatial features and their neighbor
 - 2) ☐ - The process of transforming coordinate systems
 - 3) ☐ - A method for storing raster data
 - 4) ☐ - The design of user interfaces for GIS software
- 16) Spatial data describes the location and shape of geographic features, and their relationship to other features, and descriptive data which characterizes the geographic features
 - 1) ☒ + The above statement is correct
 - 2) ☐ - The above statement is wrong
- 17) Which of the following is an example of a vector data format in GIS?
 - 1) ☐ - Raster Grid
 - 2) ☐ - GeoTIFF
 - 3) ☒ + Shapefile
 - 4) ☐ - NetCDF
- 18) In situ measurements are performed remotely without any physical contact with the object of interest.
 - 1) ☐ - TRUE.
 - 2) ☒ + FALSE.
- 19) What is a "buffer" in GIS analysis?
 - 1) ☐ - A type of spatial join
 - 2) ☒ + A region around a feature within a specified distance
 - 3) ☐ - A method of data compression
 - 4) ☐ - A format for storing raster data
- 20) Image interpretation is an exact science and provides consistent results without variability.
 - 1) ☐ - TRUE.
 - 2) ☒ + FALSE.
- 21) "...is a collection of spatial data and related descriptive data organized for efficient storage, manipulation and analysis by many users."
 - 1) ☒ + A geographic database
 - 2) ☐ - A geographic relationship
 - 3) ☐ - A geographic location
 - 4) ☐ - A geographic relation
- 22) is the abstraction of real world



- 1) - conceptual model
 - 2) - user's views
 - 3) - logical model
 - 4) ☒ model processing
- 23) Different users have different views of the world
- 1) ☒ TRUE.
 - 2) - FALSE.
- 24) What is the maximum size for datasets in a file geodatabase (by default)?
- 1) - 2 TB
 - 2) - 500 MB
 - 3) ☒ 1 TB
 - 4) - 250 MB
- 25) Georeferencing involves establishing a transformation that converts image coordinates to real-world coordinates.
- 1) ☒ TRUE.
 - 2) - FALSE.
- 26) deals with storage devices, file structure, access methods, and locations of data.
- 1) - logical model
 - 2) - model processing
 - 3) - conceptual model
 - 4) ☒ physical model
- 27) GIS work with two fundamentally different types of geographic information
- 1) ☒ TRUE.
 - 2) - FALSE.
- 28) is a collection of grid cells - like a scanned map or picture
- 1) - Topology
 - 2) - Vector data
 - 3) - A data dictionary
 - 4) ☒ A raster image
- 29) are stored as a series of x,y coordinates
- 1) - A raster image
 - 2) - A data dictionary
 - 3) ☒ Vector data
 - 4) - Topology
- 30) is a collection of rules that, coupled with a set of editing tools and techniques, enables the geodatabase to more accurately model geometric relationships
- 1) ☒ Topology
 - 2) - A raster image
 - 3) - A data dictionary
 - 4) - Vector data
- 31) In GIS, analog graphic data, such as paper maps and images, are encoded into computer formats by scanning or digitizing.
- 1) ☒ TRUE.
 - 2) - FALSE.
- 32) Personal geodatabases are limited to about 500 MB in size.
- 1) ☒ TRUE.
 - 2) - FALSE.
- 33) A composite relationship allows both tables to exist independently.
- 1) - TRUE.



- 2) ☒ FALSE.
- 34) ArcGIS Online enables users to create and share GIS content such as maps and datasets.
- 1) ☒ TRUE.
- 2) ☐ FALSE.
- 35) Which of the following operations does vector topology NOT assist with?
- 1) ☐ Polygon adjacency tracing
- 2) ☐ Spatial analysis
- 3) ☒ Image manipulation
- 4) ☐ Data validation
- 36) The object-oriented model in logical data modeling focuses on hierarchical relationships between data, such as parent-child relationships.
- 1) ☐ TRUE.
- 2) ☒ FALSE.
- 37) In data modeling, the logical model transforms the conceptual model into computing-oriented tables and records.
- 1) ☒ TRUE.
- 2) ☐ FALSE.
- 38) What type of relationship in the logical model has records in the destination table depending on a related record in the source table?
- 1) ☐ Referential
- 2) ☐ Simple
- 3) ☒ Composite
- 4) ☐ One-to-One
- 39) Which term best describes a collection of raster data that allows you to store, manage, and view vast amounts of image data?
- 1) ☐ Intersect dataset
- 2) ☐ Buffer dataset
- 3) ☒ Mosaic dataset
- 4) ☐ Clip dataset
- 40) What is the purpose of a topographic map?
- 1) ☐ To show political boundaries
- 2) ☒ To represent the elevation of the Earth's surface
- 3) ☐ To display population density
- 4) ☐ To illustrate ocean currents