

**GEOGRAPHIC INFORMATION SYSTEMS
GEOGRAPHIC INFORMATION CENTER
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***** EXAMINATION *****

GEOGRAPHIC INFORMATION SYSTEMS

1. **A geographic information system consists of:**
 - a) a computer system.
 - b) data.
 - c) operating personnel.
 - d) all of the above.

2. **A geographic information system can be used:**
 - a) for scientific investigations.
 - b) for police investigations.
 - c) for environmental studies.
 - d) all of the above.

3. **A geographic information and billing system differ because:**
 - a) a geographic information system will include maps.
 - b) a geographic information system never contains financial data.
 - c) a billing system is always faster.
 - d) a billing system will always contain more data fields.

4. **A geographic information system and billing system may be the same if:**
 - a) the billing office is located by coordinates.
 - b) the customer bill contain the location of the customer.
 - c) the addresses of the customers are assigned coordinates.
 - d) either b or c.

5. **A survey data collector is not a geographic information system because:**
 - a) of limited graphics and manipulation.
 - b) only a geographic information system stores data.
 - c) only a geographic information system displays data.
 - d) both b and c.

6. **A geographic information system can be used for:**
 - a) scientific investigations.
 - b) resource management.
 - c) development planning.
 - d) All of the above.

7. **Emergency planners may use a geographic information system to:**
- a) calculate response times.
 - b) plan emergency vehicle routes.
 - c) Either a or b.
 - d) Neither a nor b.
8. **Locations for a geographic information system are made by:**
- a) coordinates.
 - b) zip code.
 - c) city name.
 - d) Any of the above.
9. **To determine which wetlands dry up at certain times, relate:**
- a) Soil type to any map.
 - b) Rainfall to aerial photos.
 - c) Land use map to date of photography.
 - d) None of the above.
10. **Paper map data is entered into a geographic information system by:**
- a) Scanning
 - b) Digitizing
 - c) Either a or b.
 - d) Neither a nor b.
11. **The order of purchasing a geographic information system is:**
- a) Data, hardware, and software.
 - b) Hardware, data, and software.
 - c) Software, data, and hardware.
 - d) None of the above.
12. **The most tedious aspect of a geographic information system is:**
- a) Buying the hardware.
 - b) Buying the software.
 - c) Entering the data.
 - d) None of the above.
13. **The disadvantage of using a scanned image such as a DRG is:**
- a) It is difficult to change the scale.
 - b) Most DRG's are scanned inaccurately from paper.
 - c) File sizes are bulky versus vector files.
 - d) All of the above.
14. **The data structure of a geographic information systems may be:**
- a) Raster.
 - b) Vector.
 - c) Either a or b.
 - d) Neither a nor b.

15. **An example of a cell spatial relationship is:**
- a) Adjacency.
 - b) Inclusion.
 - c) Availability.
 - d) Either a or b.
16. **Data modeling in a geographic information systems is represented by:**
- a) the billing system.
 - b) a two-dimensional view.
 - c) histogram only.
 - d) Contours.
17. **Topological modeling is performed by:**
- a) relating lines, points, and areas.
 - b) calculating vector plots.
 - c) analyzing contour maps.
 - d) None of the above.
18. **A geographic information system network is used to:**
- a) connect computers.
 - b) improve communications.
 - c) simulate material routing along a series of lines.
 - d) Both a and b.
19. **Overlay mapping in a geographic information system:**
- a) is not significant in wetland mapping.
 - b) is not significant in environmental analysis.
 - c) produces a new overlay for analysis.
 - d) None of the above.
20. **Graphics in a geographic information systems makes map elements:**
- a) Easy to analyze.
 - b) Visible.
 - c) Facilitates extraction of information.
 - d) All of the above.
21. **An emergency response geographic information systems contains:**
- a) Land use
 - b) Zoning
 - c) Fire stations
 - d) All of the above.
22. **The distance emergency vehicles travel is calculated by:**
- a) AHRR
 - b) Remote sensing
 - c) Network analysis.
 - d) Any of the above.

23. **Visualization produces:**

- a) Images
- b) Maps
- c) Animations
- d) All of the above.

24. **AVHRR means:**

- a) Advanced Very High Resolution Radiometer.
- b) Associated Variable Height Resolution Readings.
- c) Available Variable Height Radar Routing.
- d) None of the above.

25. **The benefits of geographic information systems are realized by:**

- a) Government
- b) Industry
- c) Business
- d) All of the above.

26. **Edge matching is sometimes called:**

- a) Joining
- b) Hooking
- c) Paneling
- d) All of the above.

27. **A geographic information system can analyze the following conditions:**

- a) Proximity
- b) Containment
- c) Either a or b
- d) Neither a nor b

28. **Geographic information software can read:**

- a) Satellite images
- b) Scanned images
- c) DXF files.
- d) All of the above.

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