

Q-1: write the following

- (A) Define WebGIS and discuss its key functions in detail.
- (B) Describe the concept of GML. Discuss its specific schema with examples.

Or

- (A) Give a brief note on OGC along with an outline of its architecture.
- (B) Give a brief account of WFS and its role in GIS.

Q-2: write the following

- (A) Write a short note on GET and POST highlighting their differences
- (B) What do you understand by OWS Architecture? Summarize it.

Or

- (A) Provide a brief note on one area where WebGIS is applied.
- (B) Provide a concise note on the history and evolution of WebGIS.

Q-3: write the following

- (A) Explain, in brief, how Geoportal Architecture is organized.
- (B) What do you understand by HTML? Discuss its advantages and drawbacks.

Or

- (A) Compare HTML with XML and explain their differences
- (B) Explain the concept of XML and its merits and demerits.

Q-4: write the following

- (A) Define Bhuvan Geoportal and provide a brief explanation.
- (B) What are the main uses of the VEDAS portal? Explain the kind of data it provides

Or

- (A) Describe the concept of Geoportal in brief
- (B) Define the MOSDAC Web Portal and provide a brief explanation

Q-5 Attempt any seven out of twelve

1. **What does WebGIS stand for?**
 - a) Web Graphic Information System
 - b) Web-based Geographic Information System
 - c) Wide Geographic Internet System
 - d) Web Geospatial Information Software

2. **Which layer of WebGIS handles user requests and interaction?**
 - a) Data Layer
 - b) Service Layer
 - c) Client Layer
 - d) Application Layer

3. **Which of the following is NOT a function of WebGIS?**
 - a) Spatial Analysis
 - b) Data Sharing
 - c) Web Browsing unrelated to GIS
 - d) Visualization

4. **Which format is commonly used to exchange spatial data in WebGIS?**
 - a) CSV
 - b) GML
 - c) TXT
 - d) DOC

5. **Which standard organization defines Web GIS protocols?**
 - a) ISO
 - b) IEEE
 - c) OGC
 - d) W3C

6. **Which WebGIS service provides map images to the browser?**
 - a) WFS
 - b) WMS
 - c) WCS
 - d) CSW

7. **Which WebGIS service allows users to access actual vector features?**
 - a) WFS
 - b) WMS
 - c) WCS
 - d) KML

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8. **Real-time spatial data in WebGIS is often collected from:**
 - a) Static maps
 - b) GPS or IoT sensors
 - c) Word documents
 - d) Text reports

9. **Which layer of WebGIS stores the actual spatial data?**
 - a) Client Layer
 - b) Service Layer
 - c) Data Layer
 - d) Presentation Layer

10. **Which of the following is a major advantage of WebGIS?**
 - a) High installation cost
 - b) Accessibility through web browsers
 - c) Requires specialized desktop software only
 - d) Limited collaboration

11. **Which WebGIS service supports raster data delivery?**
 - a) WFS
 - b) WCS
 - c) CSW
 - d) KML

12. **The main purpose of WebGIS is:**
 - a) Only creating printed maps
 - b) Accessing, analyzing, and sharing spatial data online
 - c) Writing documents
 - d) Running offline databases

13. **Which file format is widely used to store vector data for WebGIS?**
 - a) JPEG
 - b) GML
 - c) MP3
 - d) PDF

14. **What is the primary benefit of using WebGIS over desktop GIS?**
 - a) Requires more software
 - b) Provides online access and collaboration
 - c) Needs high-end computers only
 - d) No analysis capability

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