

INTERMEDIATE GEOGRAPHIC INFORMATION SYSTEMS (GIS) 1 PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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Table of Contents

Copyright	1
Table of Contents	2
Introduction	3
How to Use This Guide	4
Questions	5
Answers	8
Explanations	10
Next Steps	16

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. Which tool in ArcGIS Pro is used to assign projection information to a file?**
 - A. Assign Projection Tool
 - B. Define Projection
 - C. Projection Manager
 - D. Projection Utility

- 2. Where can you find utilities for opening and saving projects in ArcGIS Pro?**
 - A. Contents Pane
 - B. Quick Access Toolbar
 - C. Navigation Pane
 - D. Main Menu

- 3. In GIS, which element is essential for mapping the geographical location of a feature?**
 - A. Attribute data
 - B. Geographic coordinates
 - C. Spatial reference
 - D. Temporal data

- 4. Text that updates itself as changes are made to an ArcGIS Pro layout is called?**
 - A. Static Text
 - B. Dynamic Text
 - C. Editable Text
 - D. Standard Text

- 5. Which two types of coordinate systems are predominantly utilized in GIS?**
 - A. Cartesian and polar coordinate systems
 - B. Geographic and projected coordinate systems
 - C. Decimal and fraction coordinate systems
 - D. Linear and angular coordinate systems

- 6. What do the columns in an attribute table represent?**
- A. Fields
 - B. Records
 - C. Spatial data
 - D. Graphical elements
- 7. Which aspect of network analysis is typically NOT assessed?**
- A. Efficiency of routes
 - B. Spatial format of raster data
 - C. Flow rates through pathways
 - D. Accessibility among nodes
- 8. What does "geospatial analysis" focus on?**
- A. Analyzing statistical data trends
 - B. Studying spatial relationships and patterns in geographic data
 - C. Creating new geographic coordinates
 - D. Mapping historical geographic features
- 9. Digital Line Graphs from all states can be accessed through which resource?**
- A. GeoPortal
 - B. ArcGIS Online
 - C. EarthExplorer
 - D. National Map Viewer
- 10. What does geocoding refer to?**
- A. The process of creating maps from raw data
 - B. The method of converting satellite images into 3D models
 - C. The process of converting addresses into geographic coordinates
 - D. A technique used to categorize geographic data

Answers

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1. B
2. B
3. B
4. B
5. B
6. A
7. B
8. B
9. C
10. C

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Explanations

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1. Which tool in ArcGIS Pro is used to assign projection information to a file?

- A. Assign Projection Tool
- B. Define Projection**
- C. Projection Manager
- D. Projection Utility

The choice of Define Projection is correct because this tool is specifically designed to assign a coordinate system to a dataset that lacks this information. In ArcGIS Pro, when a file does not have associated projection information—common in files received from various sources or older systems—using the Define Projection tool allows users to specify which coordinate system the data should be interpreted in. This tool does not transform or alter the data itself; rather, it simply annotates the data with the correct spatial reference. This is essential for accurate mapping and analysis, as having the correct projection information ensures that the dataset aligns properly with other spatial data layers. The other options, while potentially sounding relevant, do not serve the same function as Define Projection. For instance, the Assign Projection Tool and Projection Manager may imply broader capabilities or focus on adjusting projections rather than correctly defining the spatial reference of a file. The Projection Utility is not a recognized standard tool in ArcGIS for this purpose. Understanding this distinction is critical for effective GIS data management and ensuring spatial accuracy in analyses.

2. Where can you find utilities for opening and saving projects in ArcGIS Pro?

- A. Contents Pane
- B. Quick Access Toolbar**
- C. Navigation Pane
- D. Main Menu

In ArcGIS Pro, the Quick Access Toolbar is specifically designed to provide easy access to frequently used commands, including those for opening and saving projects. This toolbar is typically located at the top left corner of the application window, making it one of the first places users look when they need to perform basic tasks like saving their progress or opening a new project. The Quick Access Toolbar usually includes buttons for operations such as "Save," "Save As," "Open," and others that streamline the user workflow, enhancing efficiency and accessibility. By customizing this toolbar, users can add or remove tools according to their specific needs, but its default state already contains essential utilities related to project management. In contrast, the Contents Pane is primarily focused on managing and viewing layers and data in the map and is not intended for project management actions. The Navigation Pane is used for accessing project items and various resources but does not hold the primary commands for opening or saving projects. The Main Menu, while it contains many options, does not provide the same quick access convenience for these specific utilities as the Quick Access Toolbar does.

3. In GIS, which element is essential for mapping the geographical location of a feature?

- A. Attribute data
- B. Geographic coordinates**
- C. Spatial reference
- D. Temporal data

Geographic coordinates are essential for mapping the geographical location of a feature because they provide a precise method of defining a point's location on the Earth's surface. These coordinates are typically expressed in terms of latitude and longitude, allowing for accurate positioning in a two-dimensional space. By using geographic coordinates, GIS can identify where features exist, which is crucial for activities such as spatial analysis, mapping, and geographic querying. While other elements like attribute data and spatial reference are important, they serve different purposes. Attribute data contains the characteristics associated with geographic features but does not indicate their location. Spatial reference provides the framework for understanding how data relates to the Earth's surface, yet it is the geographic coordinates that pinpoint the exact location of these features. Temporal data adds a time dimension to features but is not necessary for determining their location. This emphasis on geographic coordinates highlights their fundamental role in the effective use of GIS.

4. Text that updates itself as changes are made to an ArcGIS Pro layout is called?

- A. Static Text
- B. Dynamic Text**
- C. Editable Text
- D. Standard Text

Dynamic text in ArcGIS Pro refers to text elements that automatically update based on changes made to the data or layout. This feature is particularly useful for ensuring that reports, maps, or layouts present the most current information without requiring manual intervention. For example, if you have a dynamic text element that displays the date of the last data update, it will automatically reflect the correct date whenever the underlying data changes. Dynamic text can also be configured to show information such as map scale, layer names, and other relevant details that improve the efficiency and accuracy of cartographic outputs. This automatic updating capability makes dynamic text vastly more useful in professional settings, where data is frequently revised, ensuring that users always have the most current context for their maps and layouts. In contrast, static text does not change once it is set, and editable text refers to text that you can manually change but does not inherently update based on data changes. Standard text is not a recognized term in the context of ArcGIS Pro, thus making dynamic text the most appropriate choice in this scenario.

5. Which two types of coordinate systems are predominantly utilized in GIS?

- A. Cartesian and polar coordinate systems
- B. Geographic and projected coordinate systems**
- C. Decimal and fraction coordinate systems
- D. Linear and angular coordinate systems

The predominant types of coordinate systems used in Geographic Information Systems (GIS) are geographic and projected coordinate systems. Geographic coordinate systems are based on a three-dimensional spherical model of the Earth and use a set of numbers to define the location of points in degrees of latitude and longitude. This system is essential for locating places on the Earth's surface and is often used in global positioning systems (GPS). Projected coordinate systems, on the other hand, convert the three-dimensional Earth into a two-dimensional map, which allows for easier measurement of distances, areas, and angles on flat surfaces. These systems employ various mathematical formulas to project geographic coordinates onto a plane, facilitating tasks such as urban planning, resource management, and environmental analysis. Together, both geographic and projected coordinate systems are vital for ensuring accurate spatial analysis and representation of geographic data. This capability is fundamental to GIS applications, thus making this combination the key choice in the context of the question.

6. What do the columns in an attribute table represent?

- A. Fields**
- B. Records
- C. Spatial data
- D. Graphical elements

In an attribute table, the columns represent fields. Each field corresponds to a specific attribute of the geographical features represented in the rows of the table. For example, if the table is associated with a dataset of cities, fields might include attributes such as city name, population, area size, and other characteristics. The fields allow for structured storage and organization of data, making it easier to perform queries and analysis based on specific attributes. The rows in the attribute table, in contrast, represent individual records or entries, where each record corresponds to a unique feature or observation in the dataset. Spatial data refers to geographical information related to the location and shape of the features, which is not represented directly in the attribute table but can be tied to it through a spatial database. Graphical elements pertain to the visual representation of features in a GIS interface, which is separate from the tabular data structure.

7. Which aspect of network analysis is typically NOT assessed?

- A. Efficiency of routes
- B. Spatial format of raster data**
- C. Flow rates through pathways
- D. Accessibility among nodes

In the context of network analysis, the assessment of the spatial format of raster data is not typically a focus. Network analysis generally deals with vector data, which represents paths, connections, and relationships between nodes (points) in a network. The operations and calculations performed in network analysis are concerned with how entities move through a network, the efficiency of various routes, flow through pathways, and connectivity among nodes, all of which are fundamental to understanding how networks function. While raster data can provide valuable information in many GIS applications, it is primarily used for continuous data representation (like elevation, temperature, etc.), which does not directly pertain to the discrete entities and connections foundational to network analysis. Hence, the spatial format of raster data, as a separate concept not directly related to the assessment of the functioning of networks, is rightly identified as being outside the typical focus of network analysis.

8. What does "geospatial analysis" focus on?

- A. Analyzing statistical data trends
- B. Studying spatial relationships and patterns in geographic data**
- C. Creating new geographic coordinates
- D. Mapping historical geographic features

Geospatial analysis primarily focuses on examining spatial relationships and patterns within geographic data. This field encompasses various techniques and methods that enable analysts to understand how different entities within a space relate to one another, as well as identifying trends, distributions, and anomalies in raw geographic information. By studying these spatial attributes, geospatial analysis supports a wide range of applications, from urban planning and environmental monitoring to transportation logistics and disaster response. The other options, while related to geographical and statistical information, do not capture the essence of geospatial analysis as precisely as the correct answer. Analyzing statistical data trends pertains more to statistical analysis without a direct emphasis on geographical components. Creating new geographic coordinates focuses on the mathematical aspect of location rather than the analysis of relationships within the spatial context. Mapping historical geographic features involves more of a historical or archival view rather than an analytical one that explores current spatial interactions or developments.

9. Digital Line Graphs from all states can be accessed through which resource?

- A. GeoPortal
- B. ArcGIS Online
- C. EarthExplorer**
- D. National Map Viewer

Digital Line Graphs (DLGs) are a representation of geographic features traditionally used for mapping and analysis within Geographic Information Systems. They are derived from the U.S. Geological Survey (USGS) topographic maps and are available for public use. The resource known as EarthExplorer is particularly suited for accessing a wide variety of geospatial data, including digital line graphs. EarthExplorer not only provides access to the DLGs created by the USGS but also allows users to search, discover, and download various datasets, including satellite imagery, aerial photos, and land cover information. This distinguishes EarthExplorer as the primary platform for accessing DLG data, which is essential for users conducting spatial analysis or mapping across different states. Other resources may host various types of data or GIS tools, but EarthExplorer specifically focuses on providing easy access to these kinds of line graphs and associated datasets derived from USGS sources.

10. What does geocoding refer to?

- A. The process of creating maps from raw data
- B. The method of converting satellite images into 3D models
- C. The process of converting addresses into geographic coordinates**
- D. A technique used to categorize geographic data

Geocoding specifically refers to the process of converting addresses, such as street addresses, into geographic coordinates (latitude and longitude). This conversion is essential in many GIS applications, as it allows for the mapping and analysis of locations based on address data. By transforming these textual descriptors into numerical values, geocoding enables users to create accurate geographic representations of points on a map, facilitating spatial analysis and various location-based services. While creating maps from raw data is an important aspect of GIS, this process encompasses more than just geocoding and includes data visualization and analysis techniques. Similarly, the method of converting satellite images into 3D models pertains to photogrammetry and remote sensing, which are different disciplines within GIS. Categorizing geographic data involves organizing data based on attributes without necessarily converting it into geographic coordinates. Hence, these alternative definitions do not accurately capture the essence of geocoding.

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Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://intermediategis1.examzify.com>

We wish you the very best on your exam journey. You've got this!

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