Networking and Connecting to the Internet Practice Test (Sample)

Study Guide

BY EXAMZIFY

Everything you need from our exam experts!

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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

1. **What does a domain name, such as reddit.com, specify?**
    A. The location of a database
    B. The server supporting a website
    C. The type of content available
    D. The hosting method used

2. **What primary protection do LANs need against unauthorized access from outside sources?**
    A. Firewalls
    B. Encryption
    C. Authentication
    D. Network Monitoring

3. **SAGE was developed during which historical conflict?**
    A. World War I
    B. World War II
    C. Cold War
    D. Vietnam War

4. **Which protocol allows documents to be sent over computer networks?**
    A. File Transfer Protocol (FTP)
    B. Hypertext Transfer Protocol (HTTP)
    C. Simple Network Management Protocol (SNMP)
    D. Address Resolution Protocol (ARP)

5. **How are IP addresses often assigned in a network?**
    A. By network cables
    B. Through DHCP services
    C. By manual input from administrators
    D. By the end user at their device

6. **Which of the following statements about switches is true?**
    A. They connect computers and other devices within a network
    B. They usually require a monthly subscription
    C. They are primarily designed for wireless connections
    D. They can replace a modem in a network

7. Once a call is established using circuit switching, what occurs during the duration of the call?

   A. The circuit can be shared with others.

   B. The circuit remains open for the entire call duration.

   C. The call connects to various switches randomly.

   D. The circuit is periodically refreshed.

8. A ___ , like Adobe Reader, is software that can be added to increase the functionality of a browser.

   A. program

   B. extension

   C. plug-in

   D. add-on

9. Which of the following services can be used for streaming audio?

   A. YouTube

   B. Spotify

   C. Google Drive

   D. Dropbox

10. Which activity alongside gaming consumes more bandwidth?

    A. Web browsing

    B. File downloading

    C. Video streaming

    D. Chatting online

Answers

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

Explanations

1. What does a domain name, such as reddit.com, specify?

A. The location of a database

B. The server supporting a website

C. The type of content available

D. The hosting method used

A domain name, such as reddit.com, specifies the server supporting a website. In the context of the internet, a domain name serves as a human-readable address that maps to an IP address, which is what computers use to identify each other on the network. When you enter a domain name into your web browser, it performs a DNS (Domain Name System) lookup to find the corresponding IP address of the server hosting the website associated with that domain name. This means that the primary function of a domain name is to indicate which server will respond to requests for access to the website, effectively pointing users to the correct destination on the internet. The other options do not capture this essential role; for instance, while a domain name might suggest a type of content or a database, it does not inherently specify these things. The domain itself does not indicate how content is hosted, nor does it directly specify any hosting method used by that server.

2. What primary protection do LANs need against unauthorized access from outside sources?

A. Firewalls

B. Encryption

C. Authentication

D. Network Monitoring

Firewalls serve as a crucial line of defense in protecting Local Area Networks (LANs) from unauthorized access by external threats. A firewall acts as a barrier between the trusted internal network and untrusted external networks, such as the internet. It monitors and regulates incoming and outgoing network traffic based on predetermined security rules. By filtering potentially harmful traffic and blocking unauthorized users, firewalls help prevent intrusions and attacks on the internal network. While encryption, authentication, and network monitoring are important components of a comprehensive security strategy, they do not primarily address the immediate threat of unauthorized access from outside sources in the same way that firewalls do. Encryption secures data during transmission, making it unreadable to eavesdroppers, while authentication verifies the identity of users and devices attempting to access the network. Network monitoring is essential for detecting anomalous activities and analyzing traffic patterns but does not prevent unauthorized access on its own. Together, these tools enhance overall security, but the firewall is specifically designed to prevent external unauthorized access.

3. SAGE was developed during which historical conflict?

A. World War I

B. World War II

C. Cold War

D. Vietnam War

SAGE, which stands for Semi-Automatic Ground Environment, was developed during the Cold War. This system was designed to provide the United States military with advanced radar and command and control capabilities for air defense against potential Soviet bomber attacks. The development of SAGE was a response to the changing geopolitical landscape and the emerging threat of nuclear war. The technology was groundbreaking for its time, incorporating early computer systems to enhance situational awareness and enable quick decision-making in defense operations. The context of the Cold War is critical because it was a period characterized by tension between superpowers and a focus on military preparedness. The innovations brought by SAGE reflected the emphasis on developing sophisticated technologies to gain an advantage in this ongoing ideological and military rivalry. Understanding the historical context of SAGE's development helps to appreciate its importance in air defense strategies and the technological advancements that emerged during that era.

4. Which protocol allows documents to be sent over computer networks?

A. File Transfer Protocol (FTP)

B. Hypertext Transfer Protocol (HTTP)

C. Simple Network Management Protocol (SNMP)

D. Address Resolution Protocol (ARP)

The protocol that allows documents to be sent over computer networks is Hypertext Transfer Protocol (HTTP). This is a foundational technology for the World Wide Web, where it facilitates the transfer of hypertext documents, primarily HTML files, between clients and servers. When you access a website, your browser uses HTTP to download the text, images, and other content that make up web pages. HTTP operates at the application layer of the Internet protocol suite and is designed specifically to request and receive resources. The protocol defines how messages are formatted and transmitted, as well as how web servers respond to various commands. It is essential for viewing web pages, as every time a user enters a URL or clicks a link, a request is made to an HTTP server to fetch the document. In contrast to HTTP, the other protocols listed serve different purposes. File Transfer Protocol (FTP) is focused on transferring files, but not necessarily web documents in the same way that HTTP does. Simple Network Management Protocol (SNMP) is used for network management and monitoring, while Address Resolution Protocol (ARP) is essential for mapping IP network addresses to the hardware addresses used by a data link protocol. These functions do not involve the sending of documents in the context of web browsing and accessing online resources as

5. How are IP addresses often assigned in a network?

A. By network cables

B. Through DHCP services

C. By manual input from administrators

D. By the end user at their device

IP addresses are commonly assigned through DHCP (Dynamic Host Configuration Protocol) services, which automate the process of IP assignment within a network. DHCP allows devices to join a network and receive an IP address along with other network configuration details such as subnet mask, default gateway, and DNS servers without manual intervention. This dynamic assignment is efficient and helps manage the IP addresses centrally, minimizing potential conflicts and simplifying network administration. While manual input from administrators is a viable method for setting static IP addresses, it does not reflect the common approach in most networks, especially those with a large number of devices. The use of network cables pertains to the physical connectivity of devices rather than IP assignment. End users at their devices might have some control over specific settings, but they typically do not manage the overarching IP assignment process, especially in a managed network environment where DHCP is employed.

6. Which of the following statements about switches is true?

A. They connect computers and other devices within a network

B. They usually require a monthly subscription

C. They are primarily designed for wireless connections

D. They can replace a modem in a network

Switches are networking devices that facilitate communication within a local area network (LAN) by connecting multiple devices, such as computers, printers, and servers. Their primary function is to receive incoming data packets from one device and forward them to the appropriate destination device within the network. This capability allows multiple devices to communicate efficiently, as switches operate at the data link layer of the OSI model and use MAC addresses to determine where to send data. The other statements do not accurately describe the function or characteristics of switches. For instance, switches do not typically incur a monthly subscription, as they are hardware devices that operate independently of such payment models. They are also distinct from wireless access points, as switches primarily deal with wired connections, not wireless networking. Lastly, switches cannot replace modems, which serve to connect a network to the internet by converting digital data from a computer into the analog signal needed for transmission over telephone lines or cable systems. Therefore, the focus on the true function of switches makes the correct statement clear.

7. Once a call is established using circuit switching, what occurs during the duration of the call?

   A. The circuit can be shared with others.

   B. The circuit remains open for the entire call duration.

   C. The call connects to various switches randomly.

   D. The circuit is periodically refreshed.

In circuit switching, once a call is established, a dedicated communication path or circuit is allocated for the entire duration of that call. This means that the resources required to maintain the call, such as bandwidth and circuit connections, remain exclusively assigned to that specific call without interruption. The dedicated nature of this circuit ensures stable and consistent communication, as the potential for variations in signal quality or delays—common in other methods of transmission such as packet switching—is minimized. While other options might suggest shared or random access to circuits or periodic refreshing, these are not characteristics of circuit-switched networks. Instead, the hallmark feature is that the circuit remains open and reserved solely for the established call for the entire duration, providing an uninterrupted service. This commitment of resources is essential for voice calls, where continuous and real-time communication is crucial.

8. A ___ , like Adobe Reader, is software that can be added to increase the functionality of a browser.

   A. program

   B. extension

   C. plug-in

   D. add-on

The correct choice is a plug-in because this term specifically refers to software components that add specific capabilities or features to a larger software application, such as a web browser. Plug-ins enable browsers to display additional content types or provide functionality not natively supported by the browser.   In the case of Adobe Reader, it is a plug-in that allows a browser to view PDF documents directly. Users can install plug-ins to enhance their browsing experience with various functions, such as playing video or handling different file formats. While the terms "add-on" and "extension" are also related to enhancing browser capabilities, they are often used interchangeably with "plug-in" but can have slightly different connotations depending on the context or the specific application. "Add-on" is a broader term that encompasses any software that adds features to a browser, and "extension" typically refers to user-modifiable features or tools that can be integrated into a browser's interface. Both of these terms can include plug-ins within their scope but do not capture the specific nature of plugins as enhancements that integrate directly into the browser's functionality in a more technical manner.   A "program," on the other hand, is a more general term for software but does not specifically denote a component that integrates

9. Which of the following services can be used for streaming audio?

A. YouTube

B. Spotify

C. Google Drive

D. Dropbox

Spotify is a dedicated music streaming service that allows users to listen to a vast library of audio tracks over the internet. It offers features such as personalized playlists, radio stations, and the ability to follow favorite artists, making it specifically designed for streaming audio content. The focus of Spotify is primarily on providing a seamless and high-quality audio streaming experience to its users. In contrast, while YouTube does offer audio streaming as part of its video content, it is not primarily an audio streaming platform. Google Drive and Dropbox are cloud storage services that allow users to store and share files, including audio, but they do not provide a dedicated audio streaming service or the functionality typically associated with platforms like Spotify. Thus, Spotify stands out as the most appropriate choice for streaming audio.

10. Which activity alongside gaming consumes more bandwidth?

A. Web browsing

B. File downloading

C. Video streaming

D. Chatting online

Video streaming is known to consume significantly more bandwidth compared to many other online activities, including gaming. This is primarily because streaming services deliver continuous video data, requiring a large amount of information to be transmitted in real-time. High-definition video, for instance, can use anywhere from 3 to 7 gigabytes of data per hour, and in 4K resolution, it can demand even higher bandwidth, often up to 25 gigabytes per hour. In contrast, while gaming does consume bandwidth, especially with features like real-time multiplayer interactions and updates, the amount of data transferred during a gaming session is generally lower than that required for video streaming. Web browsing, file downloading, and chatting online typically utilize less bandwidth than video streaming. Browsing tends to load small images and text, file downloads can vary widely depending on file size, and chatting usually involves minimal data transfer, focusing primarily on text-based communication. Therefore, video streaming stands out as the activity that consumes the most bandwidth alongside gaming.

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://netconnectingtotheinternet.examzify.com

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