

# Networking quiz

1. Which protocol is used for communication on the World Wide Web?

- ☐ TCP/IP
- ☐ SMTP
- ☐ HTTP
- ☐ DNS

2. Which of the following is a function of DNS?

- ☐ To convert IP addresses to domain names
- ☐ To convert domain names to IP addresses
- ☐ To secure network communication
- ☐ To manage network traffic

3. What is the purpose of port numbers in networking?

- ☐ To identify the type of network protocol being used
- ☐ To identify the source and destination devices in a network
- ☐ To identify the type of data being transmitted
- ☐ To identify the application or service being used

4. How many sets of numbers are in an IPv4 address?

- ☐ Two
- ☐ Three
- ☐ Four
- ☐ Five

5. What does TCP/IP stand for?

- ☐ Transfer Control Protocol/Internet Protocol
- ☐ Transmission Control Protocol/Internet Provider
- ☐ Transport Control Protocol/Internet Provider
- ☐ Transmission Control Provider/Internet Protocol

6. Which layer of the OSI model does TCP operate on?

- ☐ Physical layer
- ☐ Transport layer
- ☐ Network layer
- ☐ Session layer

7. Which layer of the TCP/IP model is responsible for transmitting data over a physical network connection?

- ☐ Application Layer
- ☐ Transport Layer
- ☐ Internet Layer
- ☐ Link Layer

8. Which layer of the TCP/IP model is responsible for routing data between networks?

- ☐ Application Layer
- ☐ Transport Layer
- ☐ Internet Layer
- ☐ Link Layer

9. Which layer of the OSI model is responsible for establishing, managing, and terminating sessions between applications?

- ☐ Physical Layer
- ☐ Data Link Layer
- ☐ Transport Layer
- ☐ Session Layer

10. Which layer of the OSI model is responsible for routing data between different networks?

- ☐ Network Layer
- ☐ Data Link Layer
- ☐ Physical Layer
- ☐ Transport Layer

11. Which layer of the OSI model is responsible for managing network access and controlling data flow?

- ☐ Data Link Layer
- ☐ Network Layer
- ☐ Transport Layer
- ☐ Presentation Layer

12. What is a WebSocket?

- ☐ A type of web server
- ☐ A protocol for real-time, two-way communication between a client and a server
- ☐ A type of browser extension
- ☐ A markup language for web pages

13. Which protocol is used by the WebSocket handshake to upgrade the HTTP connection to a WebSocket connection?

- ☐ TLS
- ☐ SSL
- ☐ HTTP/1.1
- ☐ WebSocket

14. Which layer of the OSI model is responsible for providing a common interface for applications to access network services?

- ☐ Transport Layer
- ☐ Session Layer
- ☐ Presentation Layer
- ☐ Application Layer

15. Which protocol is commonly used in the Application Layer to exchange data between web browsers and servers?

- ☐ HTTP
- ☐ SMTP
- ☐ Telnet
- ☐ UDP

16. What is the first step a browser takes when a user searches for a website?

- ☐ Establish a TCP connection with the web server
- ☐ Parse the HTML code of the website
- ☐ Contact the DNS server to obtain the IP address associated with the website
- ☐ Render the content of the website on the browser

17. What port number is used for establishing a TCP connection between a client's browser and a web server for HTTP communication?

- ☐ 53
- ☐ 80
- ☐ 110
- ☐ 443

18. What is the difference between HTTP and HTTPS?

- ☐ HTTP uses TCP for transport, while HTTPS uses UDP.
- ☐ HTTP is a secure protocol, while HTTPS is not.
- ☐ HTTPS uses SSL/TLS encryption to secure data transmission, while HTTP does not.
- ☐ HTTP is used for video data transfer, while HTTPS is used for audio data transfer.

19. What is an Operating System (OS)?

- ☐ A set of computer programs that manage the hardware and software resources of a computer system.
- ☐ A type of software that only manages the hardware resources of a computer system.
- ☐ A type of software that only manages the software resources of a computer system.
- ☐ None of the above.

20. What is the need for an OS?

- ☐ To provide a user interface for users to interact with the computer system.
- ☐ To manage hardware resources such as CPU, memory, and input/output devices.
- ☐ To manage software resources such as programs, files, and data.
- ☐ All of the above.

21. Who developed the first OS?

- ☐ Bill Gates
- ☐ Steve Jobs
- ☐ Linus Torvalds
- ☐ None of the above.

22. Which of the following is not a function of an OS?

- ☐ Provides a user interface for users to interact with the computer system.
- ☐ Manages hardware resources such as CPU, memory, and input/output devices.
- ☐ Manages software resources such as programs, files, and data.
- ☐ Generates reports and performs data analysis.

23. Which of the following is a key difference between hashing and encryption?

- ☐ Hashing is one-way while encryption is two-way
- ☐ Encryption is one-way while hashing is two-way
- ☐ Hashing and encryption are the same things
- ☐ Hashing and encryption are not related

24. What is cryptography?

- ☐ The process of hacking into secure data
- ☐ The practice of securing communication and information
- ☐ The process of encrypting all data for safekeeping
- ☐ The practice of sharing sensitive data with authorized individuals

25. Why is encryption used in web development?

- ☐ To make data unreadable
- ☐ To ensure the confidentiality, integrity, and authenticity of data
- ☐ To prevent unauthorized access and data breaches
- ☐ All of the above