

1. What is the purpose of the OSI model?

- A. To standardize how communications occur between devices
- B. To create a new type of network protocol
- C. To replace the TCP/IP model entirely
- D. To enhance the speed of data transmission

2. How many layers does the OSI model have?

- A. 5 layers
- B. 6 layers
- C. 7 layers
- D. 8 layers

3. What is the Protocol Data Unit (PDU) for the Transport layer?

- A. Frame
- B. Packet
- C. Segment
- D. Data

4. Which layer is responsible for managing dialog control in a session?

- A. Application Layer
- B. Session Layer
- C. Transport Layer
- D. Network Layer

5. What does the Data Link layer ensure?

- A. Data is sent and received without errors
- B. Data is encrypted for security
- C. Data is compressed for faster transmission
- D. Data is routed correctly through the network

6. What protocol does the Application layer use to request web pages? A. FTP B. HTTP C. SMTP D. Telnet 7. What is the PDU for the Network layer? A. Frame B. Packet C. Segment D. Data 8. Which layer adds overhead to the data before sending it to the Network layer? A. Application Layer B. Transport Layer C. Data Link Layer D. Physical Layer 9. What does the Physical layer transmit? A. Raw bits of data B. Encoded data C. Compressed data D. Encrypted data 10. Which layer is responsible for flow control in the network? A. Application Layer B. Transport Layer C. Network Layer D. Data Link Layer

11. What is an example of a Data Link layer protocol?

- A. IP
- B. HDLC
- C. TCP
- D. HTTP

12. What does the Presentation layer determine?

- A. How data is routed
- B. How data is presented
- C. How data is compressed
- D. How data is encrypted

13. What is the main function of the Session layer?

- A. To manage dialog control
- B. To encrypt data
- C. To route packets
- D. To compress data

14. What is the encapsulation process in networking?

- A. Adding headers to data as it moves down layers
- B. Compressing data for faster transmission
- C. Encrypting data for security
- D. Routing data through the network

15. What does the Transport layer do with data from the Session layer?

- A. Encrypts it
- B. Compresses it
- C. Breaks it into smaller units
- D. Routes it

16. What is the role of the Network layer in data transmission?

A. To ensure data is error-free
B. To route data packets
C. To present data to the user
D. To manage sessions
17. Which protocol is an example of a Transport layer protocol?
A. IP
B. TCP
C. HDLC
D. HTTP
18. What does the Data Link layer break data into?
A. Packets
B. Segments
C. Frames
D. Bits
19. What is the main purpose of the Application layer?
A. To manage sessions
B. To present data
C. To request web pages
D. To route packets
20. What is an example of a Network layer protocol?
A. HTTP
B. IP
C. FTP
D. SMTP

21. What does the encapsulation process involve?

- A. Adding headers to data
- B. Compressing data
- C. Encrypting data
- D. Routing data

22. What is the role of the Physical layer?

- A. To manage sessions
- B. To transmit raw bits of data
- C. To route packets
- D. To present data

23. What does the Session layer establish during communication?

- A. Data structure
- B. Dialog control
- C. Data encryption
- D. Data compression

24. What is the function of the Data Link layer?

- A. To ensure data is error-free
- B. To route data packets
- C. To present data to the user
- D. To manage sessions

25. What is the main function of the Transport layer?

- A. To manage sessions
- B. To ensure reliable data transfer
- C. To present data
- D. To route packets

26. What does the Network layer use for addressing?

A. Data structure
B. IP addresses
C. File types
D. Protocols
27. What is the PDU for the Data Link layer?
A. Frame
B. Packet
C. Segment
D. Data
28. What is an example of a Presentation layer encoding?
A. ASCII
B. IP
C. TCP
D. HTTP
29. What does the Application layer interact with?
A. Network protocols
B. User applications
C. Data structures
D. Session management
30. What is the main purpose of the Network layer?
A. To manage sessions
B. To route data packets
C. To present data
D. To ensure data is error-free

31. What does the Transport layer ensure?

- A. Data is error-free
- B. Data is routed correctly
- C. Data is broken into smaller units
- D. Data is presented to the user

32. What is the role of the Data Link layer in data transmission?

- A. To ensure data is error-free
- B. To route data packets
- C. To present data to the user
- D. To manage sessions

33. What is the main function of the Presentation layer?

- A. To manage sessions
- B. To present data
- C. To route packets
- D. To ensure data is error-free

34. What does the Session layer manage?

- A. Data structure
- B. Dialog control
- C. Data encryption
- D. Data compression

35. What is the encapsulation process in networking?

- A. Adding headers to data as it moves down layers
- B. Compressing data for faster transmission
- C. Encrypting data for security
- D. Routing data through the network

36. What does the Physical layer transmit?

A. Raw bits of data

B. Encoded data

C. Compressed data
D. Encrypted data
37. What is the main function of the Transport layer?
A. To manage sessions
B. To ensure reliable data transfer
C. To present data
D. To route packets
38. What is the role of the Network layer in data transmission?
A. To ensure data is error-free
B. To route data packets
C. To present data to the user
D. To manage sessions
39. What is an example of a Data Link layer protocol?
A. IP
B. HDLC
C. TCP
D. HTTP
40. What does the Data Link layer break data into?
A. Packets
B. Segments
C. Frames
D. Bits

41. What is the main purpose of the Application layer?

A. To manage sessions

B. To present data
C. To request web pages
D. To route packets
12. What is an example of a Network layer protocol?
A. HTTP
B. IP
C. FTP
D. SMTP
43. What does the encapsulation process involve?
A. Adding headers to data
B. Compressing data
C. Encrypting data
D. Routing data
14. What is the role of the Physical layer?
A. To manage sessions
B. To transmit raw bits of data
C. To route packets
D. To present data
45. What does the Session layer establish during communication?
A. Data structure
B. Dialog control
C. Data encryption
D. Data compression

46. What is the function of the Data Link layer?

A. To ensure data is error-free

B. To route data packets

C. To present data to the user
D. To manage sessions
47. What is the main function of the Transport layer?
A. To manage sessions
B. To ensure reliable data transfer
C. To present data
D. To route packets
48. What does the Network layer use for addressing?
A. Data structure
B. IP addresses
C. File types
D. Protocols
49. What is the PDU for the Data Link layer?
A. Frame
B. Packet
C. Segment
D. Data
50. What is an example of a Presentation layer encoding
A. ASCII
B. IP
C. TCP
D. HTTP

51. What does the Application layer interact with?

- A. Network protocols
- B. User applications
- C. Data structures
- D. Session management

52. What is the main purpose of the Network layer?

- A. To manage sessions
- B. To route data packets
- C. To present data
- D. To ensure data is error-free

53. What does the Transport layer ensure?

- A. Data is error-free
- B. Data is routed correctly
- C. Data is broken into smaller units
- D. Data is presented to the user

54. What is the role of the Data Link layer in data transmission?

- A. To ensure data is error-free
- B. To route data packets
- C. To present data to the user
- D. To manage sessions

55. What is the main function of the Presentation layer?

- A. To manage sessions
- B. To present data
- C. To route packets
- D. To ensure data is error-free

56. What does the Session layer manage?

- A. Data structure
- B. Dialog control
- C. Data encryption
- D. Data compression

Answers:

- 1. A
- 2. C
- 3. C
- 4. B
- 5. A
- 6. B
- 7. B
- 8. B
- 9. A
- 10. C
- 11. B
- 12. B
- 13. A
- 14. A
- 15. C
- 16. B
- 17. B
- 18. C
- 19. C
- 20. B

21. A 22. B 23. B 24. A 25. B 26. B 27. A 28. A 29. B 30. B 31. C 32. A 33. B 34. B 35. A 36. A 37. B 38. B 39. B 40. C 41. C 42. B 43. A 44. B 45. B 46. A 47. B

48. B

49. A

50. A

51. B

- 52. B
- 53. C
- 54. A
- 55. B
- 56. B