COMPUTER NETWORK:

Introductory Concepts: Goals and applications of networks, Categories of networks, Organization of the Internet, ISP, Network structure and architecture (layering

principles, services, protocols and standards), The OSI reference model, TCP/IP
protocol suite, Network devices and components

1. What is the primary goal of computer networks?a) Data storageb) Resource sharingc) Entertainmentd) Gaming
 2. Which of the following is not a category of computer networks? a) LAN b) WAN c) PAN d) CPU
 3. Which organization developed the concept of the Internet? a) IBM b) Microsoft c) DARPA d) Apple
 4. What does ISP stand for? a) Internet Service Provider b) International Standards Protocol c) Internal Security Protocol d) Internet Support Platform
5. Which of the following is not a layer in the OSI reference model?a) Applicationb) Data Linkc) Hardwared) Transport
6. Which layer of the OSI model is responsible for end-to-end communication between applications?a) Physical

- 7. Which protocol suite is the basis for the Internet?
 - a) OSI
 - b) TCP/IP

b) Transport c) Network d) Session

c) HTTP/HTTPS

d) DNS 8. What is the purpose of a router in a network? a) To connect devices within a LAN b) To connect devices within a WAN c) To connect different networks d) To connect devices within a PAN 9. Which network component is used to connect multiple devices within a LAN? a) Hub b) Switch c) Router d) Modem 10. Which device is responsible for translating domain names into IP addresses? a) Router b) Modem c) DNS Server d) Firewall 11. Which layer of the OSI model deals with data compression and encryption? a) Presentation b) Session c) Transport d) Network 12. What is the function of the Data Link layer in the OSI model? a) Ensuring end-to-end communication b) Error detection and correction c) Logical addressing d) Routing packets between networks 13. Which of the following is an example of a wide-area network (WAN)? a) Home Wi-Fi network b) Corporate LAN c) Internet d) Bluetooth connection 14. Which network category typically covers a small geographical area, like a single building

or campus?
a) LAN
b) MAN
c) WAN
d) PAN

15. What does TCP stand for?

a) Transmission Control Protocolb) Technical Computer Protocol

- c) Total Control Protocol
- d) Transmission Connection Protocol
- 16. What is the primary function of the Transport layer in the OSI model?
 - a) Logical addressing
 - b) Data link control
 - c) Error detection and correction
 - d) End-to-end communication
- 17. Which layer of the OSI model is responsible for routing packets between different networks?
 - a) Data Link
 - b) Network
 - c) Transport
 - d) Session
- 18. Which protocol is commonly used for sending and receiving emails?
 - a) HTTP
 - b) FTP
 - c) SMTP
 - d) POP3
- 19. What is the role of a firewall in network security?
 - a) Filtering and blocking network traffic
 - b) Routing packets between networks
 - c) Translating domain names into IP addresses
 - d) Ensuring end-to-end communication
- 20. Which network category typically covers a large geographical area, like a country or continent?
 - a) LAN
 - b) MAN
 - c) WAN
 - d) PAN
- 21. What does LAN stand for?
 - a) Local Area Network
 - b) Large Area Network
 - c) Long Area Network
 - d) Logical Area Network
- 22. Which device connects a LAN to a WAN, typically provided by an ISP?
 - a) Modem
 - b) Switch
 - c) Router
 - d) Hub
- 23. Which protocol is used for secure communication over the World Wide Web?

- a) HTTP b) HTTPS c) FTP d) TCP a) To filter network traffic
- 24. What is the purpose of a DNS server?

 - b) To translate domain names into IP addresses
 - c) To connect devices within a LAN
 - d) To encrypt data transmission
- 25. Which OSI model layer is responsible for establishing, maintaining, and terminating connections between devices?
 - a) Data Link
 - b) Transport
 - c) Session
 - d) Presentation
- 26. Which network category typically covers a personal area, like a room or small area?
 - a) LAN
 - b) MAN
 - c) WAN
 - d) PAN
- 27. What is the role of a gateway in a network?
 - a) To connect multiple LANs
 - b) To connect multiple WANs
 - c) To connect a LAN to the Internet
 - d) To connect a LAN to a MAN
- 28. Which protocol is used for file transfer over a network?
 - a) HTTP
 - b) FTP
 - c) SMTP
 - d) POP3
- 29. What is the primary purpose of the Network layer in the OSI model?
 - a) End-to-end communication
 - b) Error detection and correction
 - c) Logical addressing
 - d) Data link control
- 30. Which of the following is an example of a network topology?
 - a) Operating system
 - b) Protocol
 - c) Bus
 - d) Hard drive

31. What does WAN stand for?a) Wide Area Networkb) Wireless Area Networkc) Web Area Networkd) Wired Area Network	
32. What is the primary function of the Physical Layer in the OSI model?a) Routingb) Data encapsulationc) Signal transmissiond) Error correction	
33. Which protocol is used for web browsing?a) HTTPb) HTTPSc) FTPd) SMTP	
 34. Which OSI layer is responsible for data encryption and decryption? a) Data Link b) Presentation c) Transport d) Network 	
 35. What is the primary function of the Presentation layer in the OSI model? a) Logical addressing b) Data link control c) Data encryption and decryption d) Error detection and correction 	
 36. What does POP3 stand for? a) Post Office Protocol 3 b) Point of Presence Protocol 3 c) Public Operating Protocol 3 d) Protocol for Online Payments 3 	
37. Which network category typically covers a metropolitan area, like a city?a) LANb) MANc) WAN	

38. Which layer of the OSI model deals with network topology design?

d) PAN

a) Physical Layerb) Data Link Layerc) Network Layerd) Transport Layer

names into IP addresses

- 39. Which protocol is used for sending and receiving emails?
 - a) HTTP
 - b) FTP
 - c) SMTP
 - d) POP3
- 40. What is the primary goal of network layer routing protocols?
 - a) End-to-end communication
 - b) Logical addressing
 - c) Data link control
 - d) Error detection and correction
- 41. What does OSI stand for in the context of networking?
 - a) Open System Interconnect
 - b) Operating System Interface
 - c) Online Security Infrastructure
 - d) Object Storage Interface

Answers:

- 1. b) Resource sharing
- 2. d) CPU
- 3. c) DARPA
- 4. a) Internet Service Provider
- 5. c) Hardware
- 6. b) Transport
- 7. b) TCP/IP
- 8. c) To connect different networks
- 9. b) Switch
- 10. c) DNS Server
- 11. a) Presentation
- 12. b) Error detection and correction
- 13. c) Internet
- 14. a) LAN
- 15. a) Transmission Control Protocol
- 16. d) End-to-end communication
- 17. b) Network
- 18. c) SMTP
- 19. a) Filtering and blocking network traffic
- 20. c) WAN
- 21. a) Local Area Network
- 22. c) Router
- 23. b) HTTPS
- 24. b) To translate domain names into IP addresses
- 25. c) Session
- 26. d) PAN
- 27. c) To connect a LAN to the Internet
- 28. b) FTP
- 29. c) Logical Addressing
- 30. c) Bus
- 31. a) Wide Area Network
- 32. c) Signal transmission
- 33. a) HTTP
- 34. b) Presentation
- 35. c) Data encryption and decryption
- 36. a) Post Office Protocol 3
- 37. b) MAN
- 38. a) Physical Layer
- 39. c) SMTP
- 40. b) Logical addressing
- 41. a) Open System Interconnect