

MCA Entrance Exam - Full MCQ Collection

Computer Networks

Q1. The OSI model has how many layers?

Answer: 7

Q2. Which layer is responsible for end-to-end communication?

Answer: Transport

Q3. IP is a protocol of which layer?

Answer: Network

Q4. TCP is a:

Answer: Connection-oriented protocol

Q5. Which protocol is used for email retrieval?

Answer: POP3

Q6. Which device connects two different networks?

Answer: Router

Q7. HTTP uses which port number?

Answer: 80

Q8. Which of the following is not a guided media?

Answer: Microwave

Q9. What is the function of ARP?

Answer: Maps IP to MAC address

Q10. Which protocol uses three-way handshaking?

Answer: TCP

Q11. Which layer encrypts the data in the OSI model?

Answer: Presentation

Q12. What does DNS stand for?

Answer: Domain Name Service

Q13. Which protocol is used to transfer files?

Answer: FTP

Q14. Which topology connects each device to every other device?

Answer: Mesh

Q15. What is the main advantage of UDP over TCP?

Answer: Fast

Q16. IPv4 address size is:

Answer: 32-bit

Q17. Which device operates at the Data Link layer?

Answer: Switch

Q18. Which protocol is used for secure web browsing?

Answer: HTTPS

Q19. Which layer is responsible for routing?

Answer: Network

Q20. What is a MAC address?

Answer: Physical address

Q21. Which protocol is used for remote login?

Answer: Telnet

Q22. Which one is a connectionless protocol?

Answer: UDP

Q23. In star topology, the central device is:

Answer: Any of the above

Q24. What does the 'ping' command use?

Answer: ICMP

Q25. Which of the following is an application layer protocol?

Answer: FTP

Q26. Which of the following IP addresses is private?

Answer: 192.168.1.1

Q27. Which of the following is not a network topology?

Answer: Heap

Q28. Which protocol is used for domain name resolution?

Answer: DNS

Q29. DHCP stands for:

Answer: Dynamic Host Configuration Protocol

Q30. Which device converts digital signals to analog for transmission?

Answer: Modem

Q31. The smallest unit of data in networking is:

Answer: Bit

Q32. What is jitter in networking?

Answer: Variation in packet delay

Q33. What is the purpose of a firewall?

Answer: Prevent unauthorized access

Q34. Which OSI layer is responsible for error detection?

Answer: Data Link

Q35. Which of these is a layer in the TCP/IP model but not in OSI?

Answer: Application

Q36. Which protocol is used for transferring web pages?

Answer: HTTP

Q37. Which command shows IP configuration on Windows?

Answer: ipconfig

Q38. The subnet mask 255.255.255.0 implies:

Answer: Class C

Q39. Which IP class supports multicast?

Answer: Class D

Q40. Which protocol is used to assign IP addresses automatically?

Answer: DHCP

Q41. How many bits are in an IPv6 address?

Answer: 128

Q42. Which one is NOT a valid IP address?

Answer: 10.10.10.256

Q43. A protocol that establishes a secure tunnel over the internet is:

Answer: VPN

Q44. Which command shows the route taken by packets?

Answer: tracert / traceroute

Q45. Which protocol is used to send emails?

Answer: SMTP

Q46. Which media has the highest bandwidth?

Answer: Optical fiber

Q47. Which layer adds source and destination MAC addresses?

Answer: Data Link

Q48. Which part of the IP address 192.168.10.15/24 is the host ID?

Answer: 15

Q49. Which device regenerates signals in a network?

Answer: Repeater

Q50. Which of the following layers deals with user interfaces and data formatting?

Answer: Presentation