

Chapter 1: Introduction to Computer Networks - 30 MCCQs

1. Which of the following is not an application of computer networks?

- a) Email
- b) Online banking
- c) Word processing
- d) E-commerce

? Answer: c) Word processing

? Hint: Word processing is a local application, not network-dependent.

2. Which layer of the OSI model is responsible for end-to-end communication?

- a) Data Link Layer
- b) Transport Layer
- c) Network Layer
- d) Application Layer

? Answer: b) Transport Layer

? Hint: Think of TCP ? it ensures full message delivery.

3. The OSI model consists of how many layers?

- a) 5
- b) 6
- c) 7
- d) 4

? Answer: c) 7

? Hint: Remember: P-D-N-T-S-P-A (Physical ? Application)

4. In the OSI model, the network layer is responsible for:

- a) Reliable communication
- b) Addressing and routing

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- c) Framing
- d) Encryption

? Answer: b) Addressing and routing

? Hint: It handles IP addressing and path selection.

5. Which of the following is connection-oriented?

- a) IP
- b) UDP
- c) TCP
- d) HTTP

? Answer: c) TCP

? Hint: TCP = Reliable = Connection-Oriented.

6. The TCP/IP model has how many layers?

- a) 5
- b) 7
- c) 4
- d) 6

? Answer: c) 4

? Hint: Layers: Application, Transport, Internet, Network Access.

7. Which of the following devices operates at the data link layer?

- a) Router
- b) Switch
- c) Modem
- d) Hub

? Answer: b) Switch

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? Hint: Switches use MAC addresses.

8. Which protocol provides unreliable, connectionless communication?

- a) TCP
- b) IP
- c) UDP
- d) FTP

? Answer: c) UDP

? Hint: No acknowledgment = Unreliable.

9. What is bandwidth in networking?

- a) Speed of light
- b) Transmission delay
- c) Amount of data sent per unit time
- d) Size of packets

? Answer: c) Amount of data sent per unit time

? Hint: Measured in: bps, Mbps, Gbps, etc.

10. What does latency refer to in a network?

- a) Bandwidth
- b) Delay in packet delivery
- c) Size of a packet
- d) Network speed

? Answer: b) Delay in packet delivery

? Hint: It includes transmission + propagation + queuing + processing delays.