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	Tuesday, 5 August 2025, 4:02 PM
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	Tuesday, 5 August 2025, 4:21 PM
	19 mins 16 secs
	25.00/30.00
Grade	83.33 out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
A client sends a requand data). Which pro a. SSH b. SMTP c. FTP	est to download a file from a remote server. The transfer needs authentication and uses two separate connections (control stocol is being used?
d. HTTP	
Question 2	
Complete	
Mark 1.00 out of 1.00	
A company has a we a. HTTP b. TCP c. DNS d. HTTPS	bsite that must be accessed securely by users. Which protocol should be used to encrypt the communication?
Question 3 Complete	
Mark 1.00 out of 1.00	
A developer builds a a. FTP and SNI b. IMAP and P c. SMTP and P d. SMTP and II	OP3 OP3

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Question 4
Complete
Mark 1.00 out of 1.00
A device on a network knows its MAC address but not its IP address. Which protocol helps it discover its own IP address?
a. DNS
● b. RARP
○ c. ICMP
○ d. ARP
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Question 5
Complete
Mark 0.00 out of 1.00
A DNS recursive resolver queries an unknown domain. What does it do first?
a. Looks in its local zone file
b. Broadcasts an ARP request
c. Contacts the authoritative DNS server directly
d. Sends the query to a root name server
Question 6
Complete
Mark 1.00 out of 1.00
A networked device wants to send a packet to another device on the same LAN. It knows the IP address but not the MAC address. What will it use?
use:
○ a. RARP
○ b. SNMP
○ c. DHCP
● d. ARP
Question 7
Complete
Mark 1.00 out of 1.00
A server receives thousands of requests per second from different clients. It needs a fast and stateless protocol that minimizes handshake and overhead. Which is most suitable?
○ a. TCP
○ b. SMTP
© c. UDP
d. SSH
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Question 8
Complete
Mark 1.00 out of 1.00
A system admin wants to monitor the CPU usage and disk status of multiple routers and switches remotely. Which protocol is most suitable?
○ a. IMAP
○ b. RARP
© c. SNMP
O d. FTP
O U. TII
Question 9
Complete
Mark 0.00 out of 1.00
A TCP connection is established between Host A and Host B. Host A sends 3 packets, but only 2 ACKs are received. What happens next?
a. Host A retransmits only the missing packet after timeout or triple duplicate ACK.
○ b. Host B resets the connection.
c. Host A immediately resends all 3 packets.
d. Host A terminates the connection.
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Question 10
Complete
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Complete Mark 1.00 out of 1.00
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Question 1	12
Complete	
Mark 1.00 c	out of 1.00
An app	lication needs to send a video stream with minimal delay, even if some packets are lost. Which protocol should it use?
0 -	TCD
(a.	
	UDP
	ICMP
○ d.	FTP
	10
Question 1	13
Complete	
Mark 0.00 c	but of 1.00
ARP rep	plies can be sent without receiving an ARP request. What is this called?
a.	Proxy ARP
O b.	Spoofed ARP
○ c.	Reverse ARP
(d.	Gratuitous ARP
Question 1	14
Complete	
Mark 0.00 c	out of 1.00
HTTP/1	.1 keeps connections alive by default. Which header disables this behavior?
O 2	Cache-Control: no-cache
	Connection: close
	Keep-Alive: off
○ d.	Content-Length: 0
	·-
Question 1	15
Complete	. (400
Mark 1.00 c	DUL OF 1.00
If a TCP	P packet is lost in transit, what mechanism ensures its retransmission?
○ a.	ARP request
O b.	UDP checksum
c.	TCP timer and ACK tracking
	ICMP redirect
_ u .	

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Question 1	16
Complete	
Mark 1.00 c	out of 1.00
In SNM	IP, a device is not responding to GET requests. However, it's sending TRAP messages. What does this indicate?
	.,
○ a.	SNMP version mismatch
b.	SNMP agent is configured for push-only monitoring
○ c.	Firewall is blocking SNMP port 162
○ d.	Read-only community string is incorrect
Question 1	17
Complete Mark 1.00 c	out of 1.00
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In TCP's	s three-way handshake, what is the purpose of the SYN-ACK packet?
(a.	To confirm port numbers are correct
b.	To synchronize both parties' sequence numbers and acknowledge SYN
○ c.	To terminate an existing session
	To acknowledge the receipt of the SYN and establish one-way communication
<u> </u>	To data of the receipt of the office and community community and the second of the sec
Question 1	18
Complete	
Mark 1.00 c	out of 1.00
In the D	DNS hierarchy, what role does a root name server play?
	Refers the resolver to the appropriate TLD server
	Resolves all queries by itself
○ c.	
○ d.	Assigns IP addresses to domain names
Question 1	19
Complete	
Mark 1.00 c	out of 1.00
In the T	TCP/IP model, which of the following is NOT part of the Application Layer?
○ a.	FTP
b.	TCP
○ c.	SMTP
○ d.	НТТР

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Question 20
Complete
Mark 1.00 out of 1.00
What is the role of the "Control Connection" in active FTP?
a. It encrypts the data sent during authentication
b. It transfers files between the server and the client
© c. It maintains a command link over TCP port 21
d. It handles the DNS resolution of the client
Question 21
Complete
Mark 1.00 out of 1.00
When an IP packet is fragmented, which header field helps the receiver reassemble the original packet?
When all it packet is magnituded, which header held helps the receiver reassemble the original packet.
a. Fragment Offset
○ b. TTL
○ c. Header Length
○ d. Protocol
22
Question 22 Complete
Mark 1.00 out of 1.00
Which application-layer protocol allows full-duplex communication and is used for real-time updates (e.g., chat apps)?
a. SNMP
b. WebSocket
C. FTP
○ d. HTTPS
Question 23
Complete
Mark 1.00 out of 1.00
Which field in the IP header is used to prevent packets from looping indefinitely in the network?
○ a. Fragment Offset
b. Identification
C. Flags
d. TTL (Time To Live)

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