

Name:	Matric # :	Serial # : 500
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INSTRUCTIONS: This quiz has 15 multiple choice questions. Each question has only one correct answer. Please write your answers clearly in the boxes below.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Q.1: An IPv4 datagram is fragmented into three smaller datagrams. Which of the following is true?

- A: The do not fragment bit is set to 1 for all three datagrams.
- B: The identification field is the same for all three datagrams.
- C: The more fragment bit is set to 0 for all three datagrams.
- D: The offset field is the same for all three datagrams.

Q.2: The value of the acknowledgment field in a TCP segment defines the number of the — byte a party expects to receive.

- A: None of the choices
- B: next
- C: first
- D: last

Q.3: When an IP router between two Ethernet segments forwards an IP packet, it does not modify the destination MAC address.

- A: True
- B: False

Q.4: An organization is granted a block of classless addresses with the starting address 199.34.32.0/27. How many addresses are granted?

- A: None of the choices
- B: 32
- C: 8
- D: 16

Q.5: The value in the sequence number field of a TCP segment defines the number of the — data byte contained in that segment.

- A: None of the choices
- B: last
- C: next
- D: first

Q.6: When an IP router between two Ethernet segments forwards an IP packet, it does not modify the destination IP address.

- A: False
- B: True

Q.7: What is the set of techniques that allows the simultaneous transmission of multiple signals across a single data link?

- A: Compressing
- B: None of the choices
- C: Demodulating
- D: Multiplexing

Q.8: Why was the OSI model developed?

- A: None of the choices
- B: Manufacturers disliked the TCP/IP protocol suite.
- C: The rate of data transfer was increasing exponentially.
- D: Standards were needed to allow any two systems to communicate.

Q.9: If the ACK value in the TCP header is 200, then byte —— has been received successfully.

- A: 199
- B: 201
- C: 200
- D: None of the choices

Q.10: What is the protocol suite used currently in the current Internet?

- A: NCP
- B: TCP/IP
- C: UNIX
- D: ACM

Q.11: For Stop-and-Wait ARQ, for 10 data packets sent, how many acknowledgments are needed?

- A: Less than 10
- B: More than 10
- C: None of the choices
- D: Exactly 10

Q.12: TCP uses —— to check the safe and sound arrival of data.

- A: an acknowledgment mechanism
- B: None of the choices
- C: out-of-band signaling
- D: the services of another protocol

Q.13: The transport layer creates a virtual —— communication channel.

- A: node-to-node
- B: process-to-process
- C: None of the choices
- D: host-to-host

Q.14: Which address could be the beginning address of a block of 256 classless addresses in the CIDR scheme?

- A: 2.4.6.5
- B: 2.4.6.15
- C: None of the choices
- D: 2.4.6.0

Q.15: The —— layer lies between the network layer and the application layer.

- A: None of the choices
- B: Transport
- C: Data link
- D: Physical