COMP 3317 - QUIZ 4

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	Class:	COMP 3317
	Section:	1
	Date:	22/11/2022

Show your calculation process on the paper. Extra blank pages will be provided if needed.

- 1. Which protocol operates at the application layer of the TCP/IP model?
 - a) IP
 - b) TCP
 - c) HTTP
 - d) ICMP
- 2. What is a characteristic of UDP?
 - a) It establishes sessions with a three-way handshake.
 - b) It uses sequence numbers to reassemble segments.
 - c) It adds 20 bytes of overhead to application layer data.
 - d) It provides unreliable delivery of segments.
- 3.A student is sending files from a phone to a computer across a network. Which layer of the TCP/IP model is responsible for reassembling these messages as they are received on the computer?
 - a) application
 - b) transport
 - c) internet
 - d) network access
- 4. What protocol header information is used at the transport layer to identify a target application?
 - a) port number
 - b) IP address
 - c) sequence number
 - d) MAC address
- 5. What is the purpose of using a source port number in a TCP communication?
 - a) to notify the remote device that the conversation is over
 - b) to assemble the segments that arrived out of order
 - c) to keep track of multiple conversations between devices
 - d) to inquire for a nonreceived segment
- 6. When is UDP preferred to TCP?

- a) when a client sends a segment to a server
- b) when all the data must be fully received before any part of it is considered useful
- c) when an application can tolerate some loss of data during transmission
- d) when segments must arrive in a very specific sequence to be processed successfully
- 7. What are two roles of the transport layer in data communication on a network? (Choose two.)
 - a) tracking the individual communication between applications on the source and destination hosts
 - b) performing a cyclic redundancy check on the frame for errors
 - c) identifying the proper application for each communication stream
 - d) providing the interface between applications and the underlying network over which messages are transmitted
 - e) providing frame delimiting to identify bits making up a frame
- 8. Which two services or protocols use the preferred UDP protocol for fast transmission and low overhead? (Choose two)
 - a) DNS
 - b) HTTP
 - c) FTP
 - d) SMTP
 - e) VoIP
- 9. Which transport layer feature is used to guarantee session establishment?
 - a) TCP port number
 - b) UDP ACK flag
 - c) TCP 3-way handshake
 - d) UDP sequence number
- 10.Data is being sent from a source PC to a destination server. Which statements correctly describe the function of TCP or UDP in this situation? (Choose ALL correct statements.)
 - a) The TCP source port number identifies the sending host on the network.
 - b) The source port field identifies the running application or service that will handle data returning to the PC.
 - c) UDP segments are encapsulated within IP packets for transport across the network.
 - d) The UDP destination port number identifies the application or service on the server which will handle the data.
 - e) TCP is the preferred protocol when a function requires lower network overhead.
 - f) The TCP process running on the PC randomly selects the destination port when establishing a session with the server.