

Quiz- CS 303 - 18/11/21 (Thursday) - 8.40 AM to 8.50 AM-Btech(Regular)

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*** Required**

CS303 - Quiz

Total Questions - 10

Time of the Exam: 8.40 am to 8.50 am

Instructions:

1. Attempt all questions.
2. You need to compulsory submit the test/exam before the due/end time. Your response will not be recorded, If you don't submit the test.
3. There is no negative marking

VLAN can group stations based on *

- ☒ Broadcasting Address
- ☒ Logical Address
- ☐ Port Number
- ☐ Physical Address



Which of the statements are true *

- ☐ No ICMP error messages are generated for the datagrams with mulicast address
- ☒ ARP request is broadcast and ARP reply is unicast
- ☐ ARP requests can cross network boundaries
- ☐ BOOTP requests can cross network boundaries

Which of the statements are true in regard to network layer *

- ☒ Communication at the network layer is connectionless
- ☒ Dual Stack enables a system to communicate via IPv4 and IPv6
- ☐ Maximum length of data which can be encapsulated in the ethernet is 1540 bytes.
- ☐ Header Length filed in IPv6 to tell the length of the header in the frame

Which of the statements are true *

- ☒ Three layer switch can work on physical, data link and network layer
- ☒ A bridge does not change the physical (MAC) addresses in a frame.
- ☒ Switch can have many ports and can hold frames for processing
- ☒ Repeater can act as a active Hub, but a active Hub cannot act as a Repeater



Which of the statements are true *

- ☒ In stop and wait only one specific frame will need ACK, irrespective of several copies of the same frame
- ☒ Stop and Wait ARQ is a special case of Go-Back-N ARQ where size of sender window is 1
- ☒ Go-Back-N ARQ is inefficient for noisy links
- ☐ All three protocols (Stop and Wait, Go-Back-N and Selective Repeat) can implement "Piggybacking"

Which of the statements are true *

- ☒ A piconet can have up to eight stations, one of which should be a primary station
- ☒ The CTS frame in CSMA/CA handshake can prevent collision from a hidden station
- ☐ A BSS (Basic Service Set) without an AP (Access Point) is called an Infrastructure network
- ☒ Communication between two secondary devices in Bluetooth is always via primary station

Which of the statements are true in regard to routing *

- ☐ Two node instability can be avoided by split horizon and poison reverse
- ☒ In Distance Vector routing, each node sends periodic information packets only to its neighbors.
- ☒ In Link state routing, each node sends periodic information packets only to its neighbors.
- ☒ Effect of Three node instability can be reduced with help of defining infinity to a smaller number.



Store and forward technique is used in which of the following switching technique/(s)? *

- ☒ Message Switching
- ☐ Both of the above
- ☐ None of the above
- ☐ Packet Switching

Which of the statements are true in regard to UDP and TCP *

- ☐ Value of the sequence number define the first byte contained in that segment
- ☒ UDP and TCP maintain a buffer both at receiver and sender end.
- ☐ UDP and TCP assign sequence numbers to the segments.
- ☒ ACK segments do not consume sequence numbers

Which of the statements are true in regard of congestion control *

- ☐ If time-out occurs, value of the threshold will be set to zero
- ☐ If 3 ACKs are received, value of the threshold will be set to half of the current window size
- ☒ Congestion avoidance is achived with additive increase technique
- ☒ Sender's window size is decided based on avaiable buffer space in receiver and size of congestion window

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