Quiz on feb 21

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1. Which of the following is true of WiFi MAC? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) based on 1-persistent protocol

1) Acks help detect collisions

2) CW window helps avoid collisions

3) CW window is cut in half after every collision

Answer: [[1, 2]]

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2. Which of the following is true? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) SIFS < DIFS

1) PIFS > DIFS

2) Slot time < 2 * propagation-delay

3) Slot time > 2 * propagation-delay

Answer: [[0, 3]]

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3. Which among the following is true of RTS/CTS? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) They guarantee no collision

1) NAV duration indicates channel is busy for this time

2) Gap between RTS and CTS is slot time

3) Gap between CTS and Data is DIFS

Answer: [[1]]

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4. Which among the following is true of switching? Select all that apply

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Main function is media access control

1) In packet switching, frames carry information on entire route to take

2) Circuit switching works well for CBR traffic

3) Packet switching is highly fault tolerant

Answer: [[3, 2]]

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5. Which among the following is true of packet switching? Select all that apply

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Datagram switching suffers from call setup delay

1) Virtual circuit switching permits reserving resources along the path

2) VCI tags need to be unique globally

3) Source routing carries only the destination address

Answer: [[1]]

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6. The forwarding cost is the lowest among?

Marks: 1
Type: SINGLE_CORRECT_ANSWER

Options:

0) Datagram switching

1) Pure circuit switching

2) Virtual circuit switching

3) Source routing

Answer: [1]

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7. Which among the following is true of Ethernet switching? Select all that apply

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Learning bridges learn based on source address

1) If a bridge receives a packet with destination D and there is no entry for D, they drop the frame

2) If learning is disabled, switching will not work correctly

3) Each time a host connected to the bridge goes down, the bridge needs to be reset

Answer: [[0]]

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8. Which of the following is true of spanning tree protocol? Select all that apply

<div align="right">Marks: 1
Type: MULTIPLE_CHOICE</div>

Options:

   0) In STP, each bridge computes the longest path to the root

   1) The root bridge is the one with the shorted id

   2) STP prevents collisions

   3) All bridges have to continuosuly generate configuration messages

Answer: [[1]]

9.

In STP, a new configuration is better at a bridge than stored, when? Select all that apply

<div align="right">Marks: 1
Type: MULTIPLE_CHOICE</div>

Options:

   0) The bridge identifies a smaller root id

   1) Same root id, but longer distance to the root

   2) Same root id and distance, but smaller sending bridge id

   3) The stored is always better, ignore new

Answer: [[0, 2]]

10.

Which among the following is a true of bridges (link-layer switches)? Select all that apply

<div align="right">Marks: 1
Type: MULTIPLE_CHOICE</div>

Options:

   0) Flat addressin makes them scale better

   1) Sometimes forwarding can result in flooding

   2) STP provides load balancing

   3) STP provides the shotest path between any two nodes

Answer: [[1]]