Quiz on Feb 4

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13. Switches provides what topology?

Marks: 1
Type: SINGLE_CORRECT_ANSWER

Options:

0) Star

1) Ring

2) Bus

3) Mesh

Answer: [0]

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13. Multicast means

Marks: 1
Type: SINGLE_CORRECT_ANSWER

Options:

0) packet intended for a specific node

1) packet intended for all nodes

2) packet intended for a subset of nodes

3) packet intended for no node

Answer: [2]

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13. Which of the following is true of MAC protocols in general? Select all that apply

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Mac protocols are needed when the media is broadcast in nature

1) When the transmission of two nodes overlaps, the first to transmit gets its packet across without error

2) Communication about the channel is sent on a separate channel

3)
    MAC protocols specify when a node can transmit

Answer: [[0, 3]]

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13. In the speed dating analogy, FDM translates to?

Marks: 1
Type: SINGLE_CORRECT_ANSWER

Options:

0) Allocate couples different time slots

1) Allocate couples different spaces

2) Ask couples to talk in different languages

3) Ask couples to raise their hands

Answer: [1]

13.

Which of the following are true of channel partitioning protocols? Select all that apply

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) In FDM, sender can get R rate (= channel rate) when there are N users

1) A disadvantage of FDM is sender-receiver channel coordination

2) In CDMA, sender can get R rate (= channel rate) when there are N users

3) There is no channel access delay in TDM

Answer: [[1]]

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13. Which of the following is true of random access protocols? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) A sender can potentially get R rate (= channel rate) even when there are N users

1) All nodes need to coordinate their transmissions

2) The more the number of active users, the better the performance

3)
Collisions can happen even when only a single node transmits

Answer: [[0]]

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13. What is the efficieny of Aloha in percentage? Format X (e.g. 30)

Marks: 1
Type: FILL_IN_THE_BLANKS_TYPE

Answer: ["18"]

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13. Which of the following is true of Aloha based protocols? Select all that apply

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) There is channel access delay in Pure aloha

1) On collision, sender waits a random amount of time and transmits

2) As the traffic load increases, the throughput rises and falls

3) Pure Aloha has better efficiency than slotted Aloha

Answer: [[1, 2]]

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13. Which among the following is true about a switch? Select all that apply.

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Switch is a physical layer device

1) Switch does not buffers frames

2) Switch breaks up collision domains

3) Switch can connect 10BaseT with 100BaseT

Answer: [[2, 3]]

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

Marks: 1
Type: MULTIPLE_CHOICE

Options:

0) Ethernet provides reliability

1) Ethernet addresses are 48 bits long

2) Full duplex mode requires MAC

3) Ethernet employs NRZ encoding

Answer: [[1]]