Week 10 : Assignment 10

The due date for submitting this assignment has passed.

Due on 2021-10-06, 23:59 IST.

As per our records you have not submitted this assignment.

1) Which one of the following is NOT an example of soft real-time communication? *1 point*

a. FTP
b. Email
c. Web browsing
d. Internet based banking applications

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

2) Which one of the following statement is TRUE concerning queuing delay? *1 point*

a. Queuing delay is larger than both Propagation delay and Transmission delay
b. Queuing delay is larger than Propagation delay, but smaller than Transmission delay
c. Queuing delay is smaller than both Propagation delay and Transmission delay
d. Queuing delay is smaller than propagation delay but larger than Transmission delay
e. None of these

a.
b.
c.
d.
e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

3) Consider a single video source transmitting 20 frames/second to a certain receiver. Each frame contains 2MB of data. The jitter in the network is known to be 3 sec. What is the amount of buffer space required to compensate for the jitter? *1 point*

a. 30MB
b. 40MB
c. 60MB
d. 100MB
e. 120MB

a.
b.
c.
d.
e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
e.

4) Which one of the following statement is TRUE concerning network traffic? *1 point*

a. CBR traffic is a special type of VBR traffic.
b. VBR traffic is a special type of CBR traffic.
c. Sporadic traffic is a special type of VBR traffic.
d. VBR traffic is a special type of Sporadic traffic.
e. Sporadic traffic is a special type of CBR traffic.
f. CBR traffic is a special type of Sporadic traffic.
g. None of these

a.
b.
c.
d.
e.
f.
g.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

5) Alarm avalanche is an example of which of the following traffics? *1 point*

a. CBR traffic
b. VBR traffic
c. Sporadic traffic
d. None of these

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

6) Which of the following are examples of CBR traffic? *1 point*

a. The periodic temperature data generated by the sensors in a blast furnace
b. The fixed sized messages transmitted periodically over a network
c. Alternation between transmission of fixed sized packets and an idle period
d. Compressed audio signals generated from speech signals
e. Alarm avalanche

a.
b.
c.
d.
e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.
b.

7) Which of the following are not True concerning ring topology? *1 point*

a. Nodes are connected to the network using Multi-station Access Units (MSAU)
b. Each node transmits in turn and for a pre-determined period of time
c. Any break in the ring can bring the whole network down
d. Ring is a poor fit to the linear topology of most assembly lines and similar applications
e. Communication delay is inversely proportional to number of nodes in the network
f. Packet transmission is highly unpredictable
g. Bandwidth is shared on all links between devices

a.
b.
c.
d.
e.
f.
g.

No, the answer is incorrect.
Score: 0
Accepted Answers:
e.
f.

8) In 10Base2 Ethernet, 2 refers to which of the following? *1 point*

a. 2 m max cable length.
b. 20 m max cable length.
c. 200 m max cable length.
d. 2000 m max cable length.
e. None of these

a.
b.
c.
d.
e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
c.

9) Which one of the following Ethernet versions is called Thick Ethernet? *1 point*

a. 10Base2
b. 10Base5
c. 10BaseT
d. 10BaseF
e. 100BaseT
f. 1000BaseT

a.
b.
c.
d.
e.
f.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

10) Which one of the following is not an advantage of hub? *1 point*

a. Multi-tier arrangement provides graceful degradation
b. Extends maxumum distance between node pairs
c. Hubs detect typical problems such as excessive collisions on certain ports and disconnect them
d. Cannot connect different Ethernet types

a.
b.
c.
d.

No, the answer is incorrect.
Score: 0
Accepted Answers:
d.

11) In virtual time protocol, if the channel is busy, what does it indicate? *1 point*

a. It indicates that a lower priority message is being transmitted and it would need to wait until an idle period
b. It indicates that a higher priority message is being transmitted and it would need to wait until an idle period
c. It indicates that an equal priority message is being transmitted and it would need to wait until an idle period
d. It indicates that an equal priority message is being transmitted and it should not wait till an idle period
e. None of these

a.
b.
c.
d.
e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

12) In IEEE 802.5 protocol, the minimum time required to complete transmission of a frame using IEEE 802.5 protocol is which of the following? *1 point*

a. max(F, θ), where F is the frame transmission time and θ is the propagation time
b. min(F, θ), where F is the frame transmission time and θ is the propagation time
c. average(F, θ), where F is the frame transmission time and θ is the propagation time
d. square(F, θ), where F is the frame transmission time and θ is the propagation time
e. sqrt(F, θ), where F is the frame transmission time and θ is the propagation time

a.
b.
c.
d.
e.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.