

# ClassTest-1 for Computer Network(CS3002)-2021-22

Each question carries 0.5 marks. There are twenty questions. Total marks: 10.

Duration of this test is 20 minutes.

Read the questions very carefully.

...

Hi, SUSHREE. When you submit this form, the owner will see your name and email address.

\* Required

1

The communications that are not differentiated by their content or source or who is providing the content is known as \*

(0.5 Points)

- ☐ Digital Millennium Copyright Act
- ☐ Network neutrality
- ☐ Computer Networks
- ☐ Peer-to-Peer networks

2

Cable Television Networks are best examples of \*

(0.5 Points)

- ☐ Local Area Network
- ☐ Wide Area Networks



Personal Area Networks



Metropolitan Area Networks

3

A list of protocols used by a certain system, one protocol per layer, is called a \*

(0.5 Points)



Network interface



Network design



Network architecture



Protocol stack

4

Which one of the following is true for Bluetooth.

- (i) Bluetooth is a short-range wireless networks.
- (ii) Devices communicate over the range of 100-200 meters.
- (iii) Uses the master-slave paradigm. \*

(0.5 Points)



only (i) and (ii)



only (ii) and (iii)



only (i) and (iii)



All (i), (ii), and (iii)

5

According to Bob Metcalfe, the value of a network is proportional to \*

(0.5 Points)

☐ roughly twice the number of connections between clients and servers

☐ roughly twice the number of servers

☐ the square of the number of users.

☐ the number of users

6

Movie download falls under which one of the following services? \*  
(0.5 Points)

☐ Reliable message stream

☐ Unreliable message stream

☐ Reliable byte stream

☐ Unreliable byte stream

7

In a \_\_\_\_\_, data bits are sent directly, along with the check bits, rather than being encoded themselves before they are sent. \*  
(0.5 Points)

☐ Systematic Code

☐ Linear code

☐ Block code

☐ Hamming Code

8

Checkpointing long transmissions to allow them to pick up from where they left off in the event of a crash and subsequent recovery. This functionality belongs to which one of the layers. \*  
(0.5 Points)

☐ Presentation Layer

☐ Session Layer

☐ Application Layer

☐ Physical Layer

9

Parity can be used to detect how many errors? \*  
(0.5 Points)

☐ 1-bit error

☐ 2-bit error

☐ 4-bit error

☐ All of the above

10

Internet Control Message Protocol is a companion protocol of \_\_\_\_\_ \*  
(0.5 Points)

☐ Internet Protocol

☐ Link layer protocol

☐ File Transfer Protocol

☐

11

Which one of the following is NOT a service primitive for a simple connection-oriented service? \*  
(0.5 Points)

- ☐ BLOCK
- ☐ CONNECT
- ☐ LISTEN
- ☐ SEND

12

Preamble used in IEEE 802.11 is equivalent to \*  
(0.5 Points)

- ☐ (A) FLAG byte
- ☐ (B) Byte Count
- ☐ (C) Both (A) and (B)
- ☐ (D) ESC

13

Which one of the following is NOT an error-detecting code? \*  
(0.5 Points)

- ☐ Hamming codes
- ☐ Parity
- ☐ Checksum

14

Wireless network is a common example of \*  
(0.5 Points)

- ☐ (A) a point-to-point link
- ☐ (B) a broadcast link
- ☐ (C) Both (A) and (B)
- ☐ (D) Asymmetric point-to-point link

15

Which one of the following is not a responsibility of network layer? \*  
(0.5 Points)

- ☐ congestion control
- ☐ inter-networking
- ☐ Routing
- ☐ None of the mentioned above

16

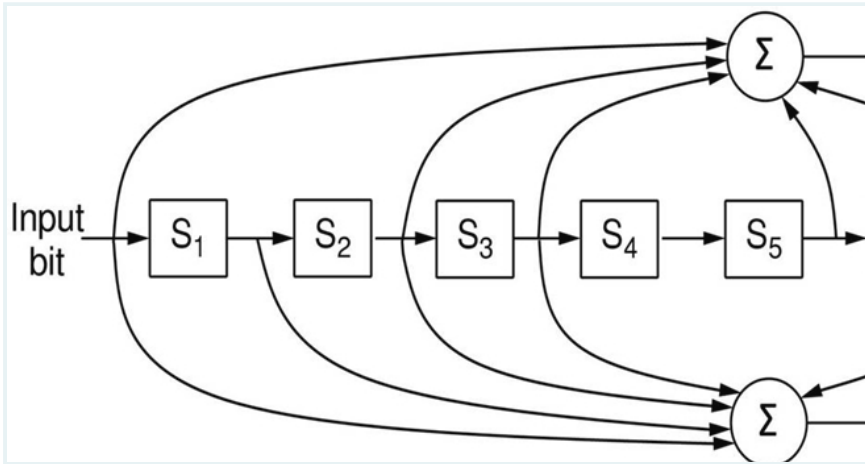
Advantage of having Virtual Private Networks over Internet instead of lease dedicated transmission links \*  
(0.5 Points)

- ☐ (A) Flexible reuse of a resource
- ☐ (B) Control over the underlying resources
- ☐ (C) Both (A) and (B)

☐ (D) Routing becomes easy

17

For the below convolutional code, what is code rate and constraint length? \*  
(0.5 Points)



- ☐ 1/7, 6
- ☐ 1/2, 7
- ☐ 1/5, 2
- ☐ 1/6, 2

18

Which one of the layer is responsible for the delivery of individual packets from the source host to the destination host. \*  
(0.5 Points)

- ☐ Network Layer
- ☐ Application Layer
- ☐ Data Link Layer

☐ Physical Layer

19

State whether the following statements related to the data link layer are True or False.

(i) Dealing with transmission errors.

(ii) Provide a well-defined service interface to the physical layer. \*

(0.5 Points)

- ☐ True, True
- ☐ False, False
- ☐ True, False
- ☐ False, True

20

802.11 is a good example of one of the following class of services. \*  
(0.5 Points)

- ☐ Acknowledged connectionless service
- ☐ Unacknowledged connectionless service
- ☐ Acknowledged connection-oriented service
- ☐ None of the above

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