CS610 Midterm Solved McQs Papers By Waqar Sidhu (File 1)

Question No 1

In broadcast topology there are two categories_____.

Select Correct Option

- ✓ **Satellite/Radio and Ring……(For More Visit VUStudents.pk)**
- ✓ Satellite/Radio and Star
- ✓ Ring and Star
- ✓ Satellite/Radio

Question NO 2

In ----------, network occupies the smaller area like a room a floor or a building.

Select Correct Option

- ✓ **LAN……(For More Visit VUStudents.pk)**
- ✓ WAN
- ✓ MAN
- ✓ PAN

Question NO 3

The Ethernet standard specifies that frame are send using the ----------.

Select Correct Option

- ✓ **Manchester Encoding……(For More Visit VUStudents.pk)**
- ✓ Nonreturn to zero(NRX)
- ✓ Return to zero(RZ)
- ✓ Differential Manchester

Question No 4

A ---------- relies on the hardware manufacturer to assign a unique physical to each network interface.

Select Correct Option

- ✓ **Static addressing scheme……(For More Visit VUStudents.pk)**
- ✓ Configurable addressing scheme
- ✓ Dynamic addressing scheme
- ✓ Burned MAC

Question NO 5

When an application ---------- data, it makes a copy of the data available to all other computers on the network.

Select Correct Option

- ✓ Broadcasting
- ✓ **Multicasting……(For More Visit VUStudents.pk)**
- ✓ Unicasting
- ✓ Anycasting

Question NO 6

Formally name _____ informally known as the thick wire Ethernet or Thick net.

Select Correct Option

- ✓ 10 Base 2
- ✓ 10 Base 5
- ✓ **10 Base T……(For More Visit VUStudents.pk)**
- ✓ 100 Base T

Question NO 7

Basic LAN technologies such as Ethernet, Token Ring, and FDDI use a _____.

Select Correct Option

- ✓ Connectionless service paradigm
- ✓ **Connection-oriented service paradigm……(For More Visit VUStudents.pk)**
- ✓ Both Connectionless service paradigm
- ✓ Connection-oriented service without acknowledgement

Question NO 8

In which type of topology computers are connected to a central device?

Select Correct Option

- ✓ **Ring……(For More Visit VUStudents.pk)**
- ✓ Mech
- ✓ Bus
- ✓ Star

Question No 9

---------- was especially most concerned about the lack of highly powered computers.

Select Correct Option

- ✓ **ARPA……(For More Visit VUStudents.pk)**
- ✓ IEEE
- ✓ EIA
- ✓ Government

Question NO 10

"Frame type" field of the header consists of _____ bits.

Select Correct Option

- ✓ 8
- ✓ 10
- ✓ 16
- ✓ **32……(For More Visit VUStudents.pk)**

Question NO 11

A bridge uses the _____ to determine which computers connect to which segment and use the _____ to determine whether to forward a copy of frame.

Select Correct Option

- ✓ **Source address, Destination address……(For More Visit VUStudents.pk)**
- ✓ Destination address, Source address
- ✓ Destination address, MAC Address
- ✓ Destination address, Destination address

Question No 12

Generally a Bridge is used to perform _____.

Select Correct Option

- ✓ Extend a LAN, Filter and Forward a packet
- ✓ Routing
- ✓ **Filter and Forward a frame……(For More Visit VUStudents.pk)**
- ✓ Filter and Forward a packet

Question NO 13

If bridge cannot find _____ in its tables then forwards frames to the other segment.

Select Correct Option

- ✓ IP address
- ✓ **Destination address……(For More Visit VUStudents.pk)**
- ✓ Source address
- ✓ Port address

Question NO 14

_____ technology can support both LAN and WAN connections.

Select Correct Option

- ✓ Frame relay
- ✓ Ethernet
- ✓ SMFS
- ✓ **ATM……(For More Visit VUStudents.pk)**

Question NO 15

Virtual Circuit connection identifier occupies _____ bits.

Select Correct Option

- ✓ **16……(For More Visit VUStudents.pk)**
- ✓ 24
- ✓ 32
- ✓ 8

Question No 16

_____ is used for ordinary data.

Select Correct Option

- ✓ **Available Bit Rate (ABR) service……(For More Visit VUStudents.pk)**
- ✓ Uniform Bit Rate (UBR) service
- ✓ Constant Bit Rate (CBR) service
- ✓ Variable Bit Rate (VBR) service

Question NO 17

Unlike Frame Relay and ATM, SMDS (Switched multi-megabit Data service) offers_____.

Select Correct Option

- ✓ **Connectionless service paradigm……(For More Visit VUStudents.pk)**
- ✓ Connection oriented service paradigm
- ✓ Both Connectionless and Connection-oriented service paradigm
- ✓ Stateless Connection oriented service paradigm

Question NO 18

The term_____ refers to the general concept of a small block of data in a network.

Select Correct Option

- ✓ **Packet……(For More Visit VUStudents.pk)**
- ✓ Byte
- ✓ Cell
- ✓ Information

Question No 19

LAN that uses ATM technology has a _____.

Select Correct Option

- ✓ **Star topology……(For More Visit VUStudents.pk)**
- ✓ Bus topology
- ✓ Ring topology
- ✓ Mesh topology

Question NO 20

The next hop to which a packet is sent depends only on _____.

Select Correct Option

- ✓ **Packet's destination……(For More Visit VUStudents.pk)**
- ✓ Packet's original source
- ✓ Path the packet has taken
- ✓ Routed Protocol

(File 2)

Question No 1

ATM was designed for _____ and use a _____.

Select Correct Option

- ✓ LANs, Connectionless service paradigm
- ✓ WANs, Connectionless service paradigm
- ✓ Both LANs and WANs, Connectionless service paradigm
- ✓ **Both LANs and WANs, Connection-oriented service paradigm**

Question NO 2

In Point-to-Point type of topologies there are two topologies _____.

Select Correct Option

- ✓ Tree and Ring
- ✓ Star and Ring
- ✓ **Star and Tree……(For More Visit VUStudents.pk)**
- ✓ Bus and Mesh

Question NO 3

In ----------, network occupies larger areas like cities & countries.

Select Correct Option

- ✓ LAN
- ✓ **WAN……(For More Visit VUStudents.pk)**
- ✓ MAN
- ✓ CAN

Question No 4

Hardware that calculates a CRC uses two simple components.

Select Correct Option

- ✓ AND unit with XOR unit
- ✓ **Shift register with XOR unit……(For More Visit VUStudents.pk)**
- ✓ Shift register with AND unit
- ✓ Shift register with shift XOR unit

Question NO 5

A network that uses a ---------- usually consist of a single long cable to which computers attach.

Select Correct Option

- ✓ Star Topology
- ✓ Ring Topology
- ✓ **Bus Topology……(For More Visit VUStudents.pk)**
- ✓ Tree Topology

Question NO 6

A ---------- provides mechanism that a customer can use to set a physical address.

Select Correct Option

- ✓ Static addressing scheme
- ✓ **Configurable addressing scheme**……(For More Visit VUStudents.pk)
- ✓ Dynamic addressing scheme
- ✓ Masking

Question No 7

Formally name _____ informally known as the thick wire Ethernet or Thick net.

Select Correct Option

- ✓ 10 Base 2
- ✓ 10 Base 5
- ✓ **10 Base T**……(For More Visit VUStudents.pk)
- ✓ 100 Base T

Question NO 8

Preamble field in Ethernet frame consist of _____ bits.

Select Correct Option

- ✓ 8
- ✓ **32**……(For More Visit VUStudents.pk)
- ✓ 48
- ✓ 64

Question NO 9

A bridge functions in the _____ layer(s)

Select Correct Option

- ✓ **Physical**……(For More Visit VUStudents.pk)
- ✓ Data link
- ✓ Network and Data link
- ✓ Physical and Data link

Question No 10

Generally a Bridge is used to perform _____.

Select Correct Option

- ✓ Extend a LAN, Filter and Forward a packet
- ✓ Routing
- ✓ **Filter and Forward a frame**……(For More Visit VUStudents.pk)
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Select Correct Option

- ✓ Frame relay
- ✓ Ethernet
- ✓ SMFS
- ✓ **ATM……(For More Visit VUStudents.pk)**

Question NO 12

One repeater_____, two repeaters_____ the maximum cable length limitation.

Select Correct Option

- ✓ Square root, Cube root
- ✓ **Double, Triple……(For More Visit VUStudents.pk)**
- ✓ Triple, Quad
- ✓ Double, Quad

Question No 13

_____ is used for compressed audio and video where the data rate is related to level of compression.

Select Correct Option

- ✓ Constant Bit Rate (CBR) service
- ✓ **Variable Bit Rate (VBR) service……(For More Visit VUStudents.pk)**
- ✓ Available Bit Rate (ABR) service
- ✓ Uniform Bit Rate (UBR) service

Question NO 14

_____ is used for ordinary data.

Select Correct Option

- ✓ **Available Bit Rate (ABR) service……(For More Visit VUStudents.pk)**
- ✓ Uniform Bit Rate (UBR) service
- ✓ Constant Bit Rate (CBR) service
- ✓ Variable Bit Rate (VBR) service

Question NO 15

_____ sends a message to a remove and reports whether the computer responds.

Select Correct Option

- ✓ Telnet
- ✓ **Ping……(For More Visit VUStudents.pk)**
  Ping
- ✓ Traceroute
- ✓ ICMP

Question No 16

A network with throughput T and delay D would have a total no of _____ bits in transit at any time.

Select Correct Option

- ✓ T + B
- ✓ T x D/Unit Time
- ✓ T / D
- ✓ **T x D**.....**(For More Visit VUStudents.pk)**

Question NO 17

A network that permits many sources to take turns accessing a shared communication resource is providing a form of _____.

Select Correct Option

- ✓ Phase Division Multiplexing
- ✓ Time Division Multiplexing
- ✓ Frequency Division Multiplexing
- ✓ Ware Division Multiplexing

Question NO 18

A network which is based on packets uses a computer which may have _____, memory and _____ for switching.

Select Correct Option

- ✓ Administration Rights, Algorithm
- ✓ Source address, Destination address
- ✓ Interface, Program
- ✓ Input, Output

Question No 19

In direct point to point communication adding the N^{th} computer requires_____ new connections.

Select Correct Option

- ✓ N(N-1)
- ✓ N^2
- ✓ N – 1
- ✓ $(N^2 - N)/2$.....**(For More Visit VUStudents.pk)**

Question NO 20

Computers attached to an ethernet use _____ in which a computer waits for the Ether to be idle before transmitting a frame.

Select Correct Option

- ✓ **CSMA/CD**.....**(For More Visit VUStudents.pk)**
- ✓ CSMA/CA
- ✓ Token passing
- ✓ Round Robin

(File 3)

Question No 1

In ----------, network occupies the smaller area like a room a floor or a building.

Select Correct Option

- ✓ **LAN……(For More Visit VUStudents.pk)**
- ✓ WAN
- ✓ MAN
- ✓ PAN

Question NO 2

A network that uses a ---------- usually consist of a single long cable to which computers attach.

Select Correct Option

- ✓ Star Topology
- ✓ Ring Topology
- ✓ **Bus Topology……(For More Visit VUStudents.pk)**
- ✓ Tree Topology

Question NO 3

A network uses a ---------- if all computers attach to a central point

Select Correct Option

- ✓ **Star Topology……(For More Visit VUStudents.pk)**
- ✓ Ring Topology
- ✓ Bus Topology
- ✓ Mesh Topology

Question No 4

A ---------- provides mechanism that automatically assigns a physical address to a station when the station first boots.

Select Correct Option

- ✓ Static addressing scheme
- ✓ Configurable addressing scheme
- ✓ **Dynamic addressing scheme……(For More Visit VUStudents.pk)**
- ✓ Dynamic Host Configuration

Question NO 5

---------- was especially most concerned about the lack of highly powered computers.

Select Correct Option

- ✓ **ARPA……(For More Visit VUStudents.pk)**
- ✓ IEEE
- ✓ EIA
- ✓ Government

Question NO 6

A bridge functions in the _____ layer(s)

Select Correct Option

- ✓ **Physical……(For More Visit VUStudents.pk)**
- ✓ Data link
- ✓ Network and Data link
- ✓ Physical and Data link

Question No 7

Which of the following in not used to extend LAN?

Select Correct Option

- ✓ Bridge
- ✓ Repeater
- ✓ Fiber modem
- ✓ **Router……(For More Visit VUStudents.pk)**

Question NO 8

The working of connection-oriented service for networking is similar to the _____.

Select Correct Option

- ✓ Ethernet
- ✓ **Telephone……(For More Visit VUStudents.pk)**
- ✓ IP
- ✓ UDP

Question NO 9

_____ senses a signal on a cable and then transmits an amplified copy of the signal.

Select Correct Option

- ✓ **Repeater……(For More Visit VUStudents.pk)**
- ✓ Bridge
- ✓ Hub
- ✓ Transceiver

Question No 10

Unlike Frame Relay and ATM, SMDS (Switched multi-megabit Data service) offers_____.

Select Correct Option

- ✓ **Connectionless service paradigm……(For More Visit VUStudents.pk)**
- ✓ Connection oriented service paradigm
- ✓ Both Connectionless and Connection-oriented service paradigm
- ✓ Stateless Connection oriented service paradigm

Question NO 11

A Bridge forward or filters a frame by comparing the information in its address table to the frame's_____.

Select Correct Option

- ✓ Layer 2 source address
- ✓ Layer 3 source address
- ✓ **Layer 2 destination address……(For More Visit VUStudents.pk)**
- ✓ Layer 3 destination address

Question NO 12

ATM is designed to work on _____.

Select Correct Option

- ✓ Twisted Pair
- ✓ Coaxial
- ✓ Radio Frequency
- ✓ **Fiber……(For More Visit VUStudents.pk)**

Question No 13

_____ identifies intermediate computers along a path to remote destination.

Select Correct Option

- ✓ Ping
- ✓ **Traceroute……(For More Visit VUStudents.pk)**
- ✓ ICMP
- ✓ OSPF

Question NO 14

_____ computes shortest paths in a graph by using weights on edges as a measure of distance.

Select Correct Option

- ✓ Greedy Algorithm
- ✓ Distance vector Algorithm
- ✓ **Dijksta's algorithm……(For More Visit VUStudents.pk)**
- ✓ Binary Search Algorithm

Question NO 15

_____ has no way to determine the cause of the problem.

Select Correct Option

- ✓ ICMP
- ✓ ARP
- ✓ **Ping……(For More Visit VUStudents.pk)**
- ✓ Traceroute

Question No 16

A network that permits many sources to take turns accessing a shared communication resource is providing a form of _____.

Select Correct Option

- ✓ Phase Division Multiplexing
- ✓ Time Division Multiplexing
- ✓ Frequency Division Multiplexing
- ✓ Ware Division Multiplexing

Question NO 17

No error detection scheme is perfect because transmission errors can effect _____.

Select Correct Option

- ✓ Additional information
- ✓ **Additional information & data……(For More Visit VUStudents.pk)**
- ✓ Transmission medium
- ✓ Data

Question NO 18

Computers attached to an ethernet use _____ in which a computer waits for the Ether to be idle before transmitting a frame.

Select Correct Option

- ✓ **CSMA/CD……(For More Visit VUStudents.pk)**
- ✓ CSMA/CA
- ✓ Token passing
- ✓ Round Robin

Question No 19

Most WAN system include mechanism that can be used to eliminate the common case of duplication routing is called_____.

Select Correct Option

- ✓ Dynamic route
- ✓ Hierarchal address
- ✓ **Default route……(For More Visit VUStudents.pk)**
- ✓ Shortest path

Question NO 20

A typical port on an ATM switch operates at _____ or higher.

Select Correct Option

- ✓ OC-2 speed (155Mbps)
- ✓ OC-3 speed (100Mbps)
- ✓ **OC-3 speed (155Mbps) ……(For More Visit VUStudents.pk)**
- ✓ OC-3 speed (155Gbps)

(File 4)

Question No 1

ATM was designed for _____ and use a _____.

Select Correct Option

- ✓ LANs, Connectionless service paradigm
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- ✓ **Both LANs and WANs, Connection-oriented service paradigm**

Question NO 2

In broadcast topology there are two categories_____.

Select Correct Option

- ✓ **Satellite/Radio and Ring……(For More Visit VUStudents.pk)**
- ✓ Satellite/Radio and Star
- ✓ Ring and Star
- ✓ Satellite/Radio

Question NO 3

---------- have advantages arisen from the size and ease of computation.

Select Correct Option

- ✓ CRC
- ✓ Parity
- ✓ **Checksums……(For More Visit VUStudents.pk)**
- ✓ VRS

Question No 4

When an application ---------- data, it makes a copy of the data available to all other computers on the network.

Select Correct Option

- ✓ Broadcasting
- ✓ **Multicasting……(For More Visit VUStudents.pk)**
- ✓ Unicasting
- ✓ Anycasting

Question NO 5

Basic LAN technologies such as Ethernet, Token Ring, and FDDI use a _____.

Select Correct Option

- ✓ Connectionless service paradigm
- ✓ **Connection-oriented service paradigm……(For More Visit VUStudents.pk)**
- ✓ Both Connectionless service paradigm
- ✓ Connection-oriented service without acknowledgement

Question NO 6

If the sending computer crashes before transmitting a complete frame, the_____- will not arrive and the receiver will know that the frame is _____.

Select Correct Option

- ✓ soh, complete
- ✓ soh, incomplete
- ✓ **eot, incomplete……(For More Visit VUStudents.pk)**
- ✓ eot, complete

Question No 7

---------- was especially most concerned about the lack of highly powered computers.

Select Correct Option

- ✓ **ARPA……(For More Visit VUStudents.pk)**
- ✓ IEEE
- ✓ EIA
- ✓ Government

Question NO 8

"Frame type" field of the header consists of _____ bits.

Select Correct Option

- ✓ 8
- ✓ 10
- ✓ 16
- ✓ **32……(For More Visit VUStudents.pk)**

Question NO 9

Virtual Circuit connection identifier occupies _____ bits.

Select Correct Option

- ✓ **16……(For More Visit VUStudents.pk)**
- ✓ 24
- ✓ 32
- ✓ 8

Question No 10

_____ senses a signal on a cable and then transmits an amplified copy of the signal.

Select Correct Option

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One repeater_____, two repeaters_____ the maximum cable length limitation.

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No error detection scheme is perfect because transmission errors can effect _____.

Select Correct Option

- ✓ Additional information
- ✓ **Additional information & data……(For More Visit VUStudents.pk)**
- ✓ Transmission medium
- ✓ Data

Question NO 15

LAN that uses ATM technology has a _____.

Select Correct Option

- ✓ **Star topology……(For More Visit VUStudents.pk)**
- ✓ Bus topology
- ✓ Ring topology
- ✓ Mesh topology

Question No 16

FDDI can transmits data at a rate of _____.

Select Correct Option

- ✓ **100 million bits per second……(For More Visit VUStudents.pk)**
- ✓ 10 million bits per second
- ✓ 1000 million bits per second
- ✓ 3 million bits per second

Question NO 17

The next hop to which a packet is sent depends only on _____.

Select Correct Option

- ✓ **Packet's destination……(For More Visit VUStudents.pk)**
- ✓ Packet's original source
- ✓ Path the packet has taken
- ✓ Routed Protocol

Question NO 18

Most WAN system include mechanism that can be used to eliminate the common case of duplication routing is called_____.

Select Correct Option

- ✓ Dynamic route
- ✓ Hierarchal address
- ✓ **Default route……(For More Visit VUStudents.pk)**
- ✓ Shortest path

Question No 19

_____ in which delay among packets can very.

Select Correct Option

- ✓ Virtual Private Network
- ✓ Isochronous Networks
- ✓ Asynchronous Networks
- ✓ Synchronous Networks

Question NO 20

A typical port on an ATM switch operates at _____ or higher.

Select Correct Option

- ✓ OC-2 speed (155Mbps)
- ✓ OC-3 speed (100Mbps)
- ✓ **OC-3 speed (155Mbps) ……(For More Visit VUStudents.pk)**
- ✓ OC-3 speed (155Gbps)

(File 5)

Question No 1

In ----------, network occupies the smaller area like a room a floor or a building.

Select Correct Option

- ✓ **LAN……(For More Visit VUStudents.pk)**
- ✓ WAN
- ✓ MAN
- ✓ Wireless WAN

Question NO 2

In which type of topology computers are connected to a central device?

Select Correct Option

- ✓ **Ring……(For More Visit VUStudents.pk)**
- ✓ Mech
- ✓ Bus
- ✓ Star

Question NO 3

The term_____ refers to the general concept of a small block of data in a network.

Select Correct Option

- ✓ **Packet……(For More Visit VUStudents.pk)**
- ✓ Byte
- ✓ Cell
- ✓ Information

Question No 4

_____ is the scheme, which is designed to help in detecting transmission errors by sending one extra bit of information with each character.

Select Correct Option

- ✓ **Parity checking……(For More Visit VUStudents.pk)**
- ✓ Checksums
- ✓ CRC
- ✓ LRC

Question NO 5

---------- have advantages arisen from the size and ease of computation.

Select Correct Option

- ✓ CRC
- ✓ Parity
- ✓ **Checksums……(For More Visit VUStudents.pk)**
- ✓ VRS

Question NO 6

The Fast Ethernet hardware operates at a rate of _____.

Select Correct Option

- ✓ 10 Mbps
- ✓ **100 Mbps**……(For More Visit VUStudents.pk)
- ✓ 1000 Mbps
- ✓ 1 Gbps

Question No 7

The Global Ethernet hardware operates at a rate of _____.

Select Correct Option

- ✓ 10 Mbps
- ✓ 100 Mbps
- ✓ **1000 Mbps**……(For More Visit VUStudents.pk)
- ✓ 10 Gbps

Question NO 8

Wireless LAN uses _____ as a media access method.

Select Correct Option

- ✓ CSMA/CD
- ✓ **CSMA/CA**……(For More Visit VUStudents.pk)
- ✓ Token passing
- ✓ Round Robin

Question NO 9

A ---------- relies on the hardware manufacturer to assign a unique physical to each network interface.

Select Correct Option

- ✓ **Static addressing scheme**……(For More Visit VUStudents.pk)
- ✓ Configurable addressing scheme
- ✓ Dynamic addressing scheme
- ✓ Burned MAC

Question No 10

IEEE LLC/SNAP header is consist of _____ which is used to specify the type of data.

Select Correct Option

- ✓ **8 octets**……(For More Visit VUStudents.pk)
- ✓ 10 octets
- ✓ 12 bytes
- ✓ 16 bits

Question NO 11

Formally name _____ informally known as the thick wire Ethernet or Thick net.

Select Correct Option

- ✓ 10 Base 2
- ✓ 10 Base 5
- ✓ **10 Base T……(For More Visit VUStudents.pk)**
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_____ senses a signal on a cable and then transmits an amplified copy of the signal.

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- ✓ Extend a LAN, Filter and Forward a packet
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- ✓ **Filter and Forward a frame……(For More Visit VUStudents.pk)**
- ✓ Filter and Forward a packet

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Which of the following in not used to extend LAN?

Select Correct Option

- ✓ Bridge
- ✓ Repeater
- ✓ Fiber modem
- ✓ **HUB……(For More Visit VUStudents.pk)**

Question NO 15

If bridge cannot find _____ in its tables then forwards frames to the other segment.

Select Correct Option

- ✓ IP address
- ✓ **Destination address……(For More Visit VUStudents.pk)**
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- ✓ Port address

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- ✓ Dynamic route
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Question NO 17

The working of connection-oriented service for networking is similar to the _____.

Select Correct Option

- ✓ Ethernet
- ✓ **Telephone……(For More Visit VUStudents.pk)**
- ✓ IP
- ✓ UDP

Question NO 18

ATM assigns each VC a _____ identifier which is divided into two parts to produce a hierarchy.

Select Correct Option

- ✓ 23-bit
- ✓ **24-bit……(For More Visit VUStudents.pk)**
- ✓ 21-bit
- ✓ 22-bit

Question No 19

_____ is used for delay sensitive applications requiring high data rate.

Select Correct Option

- ✓ **Constant Bit Rate (CBR) service……(For More Visit VUStudents.pk)**
- ✓ Variable Bit Rate (VBR) service
- ✓ Available Bit Rate (ABR) service
- ✓ Uniform Bit Rate (UBR) service

Question NO 20

Header of cell takes _____ of network capacity.

Select Correct Option

- ✓ 5%
- ✓ **10%……(For More Visit VUStudents.pk)**
- ✓ 12%
- ✓ 15%

The END