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**Data Communication and Networking**



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Q. 1 **Encryption and decryption are the functions of**

- [A] transport layer
- [B] session layer
- [C] presentation layer
- [D] All of the above

Answer Option [C]

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Q. 2 **Hub is associated with \_\_\_\_\_ network .**

- [A] bus
- [B] ring
- [C] star
- [D] mesh

Answer Option [C]

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Q. 3 **A device operating at the physical layer is called a**

- [A] bridge
- [B] router
- [C] repeater
- [D] All of these

Answer Option [C]

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Q. 4 **A processor that collects the transmissions from several communications media and send them over a single line that operates at a higher capacity is called**

- [A] multiplexor
- [B] bridge
- [C] hub
- [D] router

Answer Option [A]

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Q. 5 **The advantage of LAN is -**

- [A] sharing peripherals
- [B] backing up your data
- [C] saving all your data
- [D] accessing the web

Answer Option [A]

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Q. 6 **Communication channel having \_\_\_\_\_ types .**

- [A] 1
- [B] 2
- [C] 3
- [D] 4

Answer Option [C]

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Q. 7 **Network components are connected to the same cable in the ..... topology.**

- [A] star
- [B] ring
- [C] bus
- [D] mesh

Answer Option [C]

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Q. 8 **Which of the following represents the fastest data transmission speed?**

- [A] Bandwidth
- [B] bps
- [C] gbps
- [D] kbps

Answer Option [C]

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Q. 9 **A device that connects to a network without the use of cables is said to be**

- [A] distributed
- [B] cabled
- [C] centralised
- [D] wireless

Answer Option [D]

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Q. 10 **Two or more computers connected to each other for sharing information form a**

- [A] network
- [B] router
- [C] server
- [D] tunnel

Answer Option [A]

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Q. 11 **Bandwidth refers to**

- [A] the cost of the cable required to implement a WAN
- [B] the cost of the cable required to implement a LAN
- [C] the amount of information a peer-to-peer network can store
- [D] the amount of information a communications medium can transfer in a given amount of time

Answer Option [D]

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Q. 12 **What is the function of a modem?**

- [A] Encryption and decryption
- [B] Converts data to voice
- [C] Converts analog signals to digitals and vice-versa
- [D] Serve as a hardware anti-virus

Answer Option [C]

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Q. 13 **..... is the most important/powerful computer in a typical network.**

- [A] Desktop
- [B] Network client
- [C] Network server
- [D] Network station

Answer Option [C]

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Q. 14 **..... allows LAN users to share computer programs and data.**

- [A] Communication server
- [B] Print server
- [C] File server
- [D] All of these

Answer Option [C]

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Q. 15 **A combination of hardware and software that allows communication and electronic transfer of information between computers is a**

- [A] network
- [B] backup system
- [C] server
- [D] peripheral

Answer Option [A]

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Q. 16 **How many layers are in the TCP/IP model?**

- [A] 4 layers
- [B] 5 layers
- [C] 6 layers
- [D] 7 layers

Answer Option [B]

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Q. 17 **Which of the following items is not used in Local Area Networks (LANs)?**

- [A] Interface card
- [B] Cable
- [C] Computer
- [D] Modem

Answer Option [D]

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Q. 18 **Which of the following is an advantage to using fiber optics data transmission?**

- [A] Resistance to data theft
- [B] Fast data transmission rate
- [C] Low noise level
- [D] All of the above

Answer Option [C]

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Q. 19 **What type of resource is most likely to be a shared common resource in a computer network?**

- [A] Printers
- [B] Speakers
- [C] Floppy disk drives
- [D] Keyboards

Answer Option [A]

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Q. 20 **Which of the following refers to a small, single-site network?**

- [A] PAN
- [B] DSL
- [C] RAM
- [D] USB

Answer Option [A]

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Q. 21 **In simplex channel, flow of data is -**

- [A] always in one direction
- [B] always in both direction
- [C] in both direction, but one at a time
- [D] All of the above

Answer Option [A]

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Q. 22 **Wi-Fi uses -**

- [A] optic fiber
- [B] phase line
- [C] radio-waves
- [D] sound-waves

Answer Option [C]

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Q. 23 **How many bits are there in the ethernet address?**

- [A] 64 bits
- [B] 48 bits
- [C] 32 bits
- [D] 16 bits

Answer Option [B]

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Q. 24 **In a ring topology, the computer in possession of the ..... can transmit data.**

- [A] packet
- [B] data
- [C] access method
- [D] token

Answer Option [D]

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Q. 25 \_\_\_\_\_ **is the transmission of data between two or more computers over communication links.**

- [A] Communication
- [B] Networking
- [C] Data networking
- [D] Data communication

Answer Option [D]

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Q. 26 Which type of network would use phone lines ?

- [A] WAN
- [B] LAN
- [C] WWAN
- [D] Wireless

Answer Option [A]

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Q. 27 Multiplexing involves \_\_\_\_\_ path and \_\_\_\_\_ channel .

- [A] one, one
- [B] one, multiple
- [C] multiple, one
- [D] multiple, multiple

Answer Option [B]

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Q. 28 Typical data transfer rate in LAN are of the order of

- [A] bits per second
- [B] kilo bits per second
- [C] mega bits per second
- [D] tera bits per second

Answer Option [C]

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Q. 29 What is the use of bridge in network?

- [A] To connect LANs
- [B] To separate LANs
- [C] To control network speed
- [D] All of these

Answer Option [A]

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Q. 30 Which of the following is considered a broad band communication channel?

- [A] Coaxial cable
- [B] Fiber optics cable
- [C] Microwave circuits
- [D] All of these

Answer Option [D]

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Q. 31 Which of the following is not a network device?

- [A] Router
- [B] Switch
- [C] Modem
- [D] Bridge

Answer Option [C]

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Q. 32 The first network that has planted the seeds of internet was

- [A] ARPANET
- [B] NSF net
- [C] V net
- [D] I net

Answer Option [A]

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Q. 33 A protocol is a set of rules governing a time sequence of events that must take place

- [A] between peers
- [B] between an interface
- [C] between modems
- [D] across an interface

Answer Option [D]

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Q. 34 An inter-company network which used to distribute information, documents files and database, is called as

- [A] LAN
- [B] Switch
- [C] WAN
- [D] MAN

Answer Option [A]

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Q. 35 Ethernet, token ring and token bus are types of

- [A] WAN
- [B] LAN
- [C] communication channels
- [D] physical medium

Answer Option [B]

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Q. 36 **A packet filtering firewall operates at which of the following OSI layers?**

- [A] At the application layer
- [B] At the transport layer
- [C] At the network
- [D] At the gateway layer

Answer Option [A]

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Q. 37 **Ethernet uses**

- [A] bus topology
- [B] ring topology
- [C] mesh topology
- [D] All of these

Answer Option [A]

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Q. 38 **Geometric arrangement of devices on the network is called -**

- [A] topology
- [B] protocols
- [C] media
- [D] LAN

Answer Option [A]

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Q. 39 **Networking using fibre optic cable is done as**

- [A] It has high bandwidth
- [B] It is thin and light
- [C] It is not affected by electromagnetic
- [D] All of the above

Answer Option [D]

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Q. 40 **Which of the following topologies is not of broadcast type?**

- [A] Star
- [B] Bus
- [C] Ring
- [D] All of these

Answer Option [B]

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Q. 41 To send data/message to and from computers the network software puts the message information in a -

- [A] NIC
- [B] packet
- [C] trailer
- [D] header

Answer Option [B]

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Q. 42 Servers are those computers which provide resources to other computers connected by

- [A] network
- [B] mainframe
- [C] super computer
- [D] client

Answer Option [A]

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Q. 43 An alternate name for the completely interconnected network topology is

- [A] mesh
- [B] star
- [C] tree
- [D] ring

Answer Option [A]

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Q. 44 P2P is a ..... application architecture.

- [A] client/server
- [B] distributed
- [C] centralised
- [D] 1-tier

Answer Option [A]

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Q. 45 LAN can use \_\_\_\_\_ architecture .

- [A] peer-to-peer
- [B] client and server
- [C] Both (A) and (B)
- [D] None of these

Answer Option [C]

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Q. 46 **In OSI network architecture, the routing is performed by**

- [A] network layer
- [B] data link layer
- [C] transport layer
- [D] session layer

Answer Option [A]

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Q. 47 **Which is the name of the network topology in which there are bidirectional links between each possible node?**

- [A] Ring
- [B] Start
- [C] Tree
- [D] Mesh

Answer Option [D]

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Q. 48 **Which of the following is the fastest communication channel?**

- [A] Radio wave
- [B] Micro wave
- [C] Optical fiber
- [D] All are operating at nearly the same propagation speed

Answer Option [B]

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