

**Data Communication and terminologies**

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1. Data communications are the transfer of data through some

**a) transmission medium**

b) linear medium

c) Network LAN

d) Protocols

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2. Keyboard and traditional monitors are examples of

**a) Simplex devices**      b) Duplex devices

c) Half Duplex devices      d) Full Duplex devices

3. The effectiveness of a data communications system depends on four fundamental characteristics

a) delivery, accuracy

b) timeliness and jitter

c) jitter and delivery

**d) both a and b**

4. Propagation time is equals to

**a) Distance/Propagation speed**

b) Propagation speed/Bandwidth

c) Message size/ Bandwidth

d) Bandwidth/Queuing time

5. Period is the inverse of

**a) Frequency**      b) Phase

c) Amplitude      d) Signals

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6. The black and white TV is an example of

**a) non periodic composite signal**

b) periodic composite signal

c) signal

d) periodic signal

7. If signal does not change at all, its frequency is

a) Zero

b) Maximum

**c) Infinite**

d) None of Above

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8. Analog data refers to information that is

a) Discrete state

**b) Continuous state**

c) Randomly arranged      d) None of Above

9. We send a voice signal from a microphone to a recorder, the transmission is

**a) Base band transmission**

b) Broad band transmission

c) both a and b

d) None of Above

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10. The data rate depends upon

a) Bandwidth

b) Level of signals

c) Level of noise

**d) All of the above**

11. Bit rate is in

a) Bits per Hertz

**b) Bits Per Second**

c) Nano seconds

d) Pixels per second

12. Digital data refers to the information that is

a) Continuous

**b) Discrete**

c) Bits

d) Bytes

13. The term that refers to change the digital signal to an analog signal for transmission is called

**a) Modulation**

b) Demodulation

c) Encapsulation

d) Bypass

14. A sine wave is defined by

a) amplitude

b) frequency

c) Phase

**d) All of the above**

15. The concept of Wavelength is equivalent to the

a) Bit rate

b) Bandwidth

c) Amplitude

**d) Bit Length**

16. The term that refers to loss of energy is called

- a) **attenuation**                      b) distortion  
c) Noise                              d) Impairments

17. If a noiseless channel with a bandwidth of 3000 Hz transmitting a signal with two signal levels the maximum Bit rate would be

- a) 12000 bps                      **b) 6000 bps**  
c) 1800bps                        d) zero

18. In data communications, we use periodic analog signals and

- a) Periodic digital signals  
b) Non periodic analog signals  
**c) Non periodic digital signals**  
d) both a and c

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19. The range of frequencies contained in a composite signal is called

- a) Wavelength                      **b) Bandwidth**  
c) amplitude                        d) Composite

20. SNR stands for

- a) Shannon Noise ratio  
b) Shannon Noise Relation  
**c) Signal Noise ratio**  
d) Signal Noise Relation

21. The last step in Pulse Code Modulation (PCM) is

- a) Quantization                      b) Sampling  
**c) Encoding**                        d) Modulation

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22. The parameter that refers to the signal levels are on one side of the time axis, either above or below is

- a) Unipolar**                        b) Bipolar  
c) Polar                              d) Multi level

23. In synchronous transmission, we send bits one after the another without

- a) Start bit                        b) Stop bit  
c) gap bit                        **d) All of the above**

24. The transmission that is used without the timing signal is called

- a) synchronous                      **b) asynchronous**  
c) parallel                            d) isochronous

25. The unit of the signal rate is

- a) Bits per second                      **b) Baud**  
c) Seconds                            d) Hertz

26. Baud rate is the number of

- a) signal elements per second**  
b) bits per second  
c) Frames per second  
d) None

27. The change or lack of change in the level of the voltage determines the value of the bit is called

- a) NRZ                                b) NRZ-L  
**c) NRZ-I**                            d) RZ

28. The bandwidth is proportional to the

- a) baud rate**                        b) data rate  
c) delay rate                        d) bit rate

29. The idea of Return to Zero (RZ) and None Return to Zero-Level (NRZ-L) are combined into the

- a) Manchester**  
b) Differential Manchester  
c) Multilevel  
d) Multi transition

### **Transmission media**

1. Transmission media are directly controlled by the

- a) physical layer**                      b) data link layer  
c) network layer                      d) session layer

2. The electromagnetic waves ranging in frequencies between 3 kHz and 1 GHz are called

- a) High frequency                      **b) Infrared**  
c) Microwaves                        d) radio waves

3. Twisted-Pair and coaxial cable are used

- a) **copper**
- b) light
- c) unwired
- d) wireless

4. RG-59 is used in

- a) radio
- b) thick Ethernet
- c) thin Ethernet
- d) **cable TV**

5. Line-of-sight propagation lies above

- a) 3 KHz
- b) **30 MHz**
- c) 15 MHz
- d) 2 KHz

6. 3 KHz to 300 kHz is reserves for Radio wave and microwave that is actually

- a) **ground propagation**
- b) sky propagation
- c) line-of-sight propagation
- d) None

7. Unguided medium is

- a) twisted pair cable
- b) coaxial cable
- c) fiber optic cable
- d) **free space**

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8. Radio waves are

- a) unidirectional
- b) **omnidirectional**
- c) bidirectional
- d) directional

9. Microwaves having frequency between

- a) **1 and 300 GHz**
- b) 3 kHz and 1 GHz
- c) 300 kHz and 1 GHz
- d) 1GHz and 300 GHz

10. In line-or-sight propagation, very high-frequency signals are transmitted in straight lines directly from antenna to

- a) sky
- b) earth
- c) **antenna**
- d) planet

11. The most common unshielded twisted pair connector is

- a) **RG-45**
- b) RG-59
- c) RG-58
- d) RG-11

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12. Unshielded Twisted-Pair used in

- a) **telephone**
- b) T-lines
- c) LAN
- d) token ring networks

### ***Different Topologies & Network***

1. Communication channel is shared by all the machines on the network in

- a) **broadcast network**
- b) unicast network
- c) multicast network
- d) none

2. Bluetooth is an example of

- a) **personal area network**
- b) local area network
- c) virtual private network
- d) none of the mentioned

3. Communication between a computer and a keyboard involves \_\_\_\_\_ transmission

- a) Automatic
- b) Half-duplex
- c) Full-duplex
- d) **Simplex**

4. Three or more devices share a link in \_\_\_\_\_ connection

- a) Unipoint
- b) **Multipoint**
- c) Point to point
- d) None

5. In this topology there is a central controller or hub

- a) **Star**
- b) Mesh
- c) Ring
- d) Bus

6. This topology requires multipoint connection

- a) Star
- b) Mesh
- c) Ring
- d) **Bus**

7. Data communication system spanning states, countries, or the whole world is

- a) LAN
- b) **WAN**
- c) MAN
- d) None

8. Data communication system within a building or campus is

- a) **LAN**
- b) WAN
- c) MAN
- d) None

9. Expand WAN

- a) **World area network**
- b) Wide area network
- c) Web area network
- d) None of the mentioned

### **Application Layer**

1. In File Transfer Protocol (FTP), while the control connection is open, the data connection can be

- opened and closed
- a) One time
- b) Several Times
- c) **Multiple Times**
- d) None of the given

2. File Transfer Protocol (FTP), uses the well-known port 21 is used for the control connection and the well-known port 20 for the

- a) Data Rate
- b) **Data Connection**
- c) Data Protocol
- d) Data Congestion

3. TELNET is a general-purpose

- a) **client/server application program**
- b) host/server application program
- c) remote system
- d) terminal emulator

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4. The FTP uses the services of

- a) **TCP**
- b) UDP
- c) SMTP
- d) DNS

5. In Hyper Text Transfer Protocol (HTTP), support

- a) Proxy Domain
- b) Proxy Documents
- c) **Proxy Server**
- d) Proxy IP

6. The Hypertext Transfer Protocol (HTTP), uses the services of TCP on

- a) **well-known port 80**
- b) well-known port 81
- c) well-known port 82
- d) well-known port 83

7. URL stands for

- a) Uniform Resource Loader
- b) Uniform Resource Line
- c) **Uniform Resource Locator**
- d) Uniform Resource Lighter

8. If 5 files are transferred from server A to client B in the same session. The number of connection between A and B is

- a) 5
- b) 10
- c) 2
- d) **6**

9. Choose the statement which is wrong incase of SMTP

- a) It requires message to be in 7bit ASCII format
- b) It is a pull protocol
- c) It transfers files from one mail server to another mail server
- d) **None of the mentioned**

10. Which one of the following protocol is used to receive mail messages?

- a) SMTP
- b) post office protocol
- c) internet message access protocol
- d) **all of the mentioned**

### **Transport Layer**

1. Unlike User Datagram Protocol (UDP), the Transmission Control Protocol (TCP) has the Services which is

- a) **Connection Oriented**
- b) Connectionless
- c) Connection generated
- d) Connection Organizing

2. The maximum size of the TCP header is
- a) 20 bytes
  - b) 40 bytes
  - c) 60 bytes**
  - d) 80 bytes

- c) 192.168.10.9
- d) 172.16.11.3

8. The class of the IP addresses 208.34.54.12 will be

- a) class A
- b) Class B
- c) Class C**
- d) Class E

### Network layer

1. If an Address Resolution Protocol (ARP) request is broadcast, an Address Resolution Protocol (ARP) reply is
- a) Universal
  - b) Unicast**
  - c) Multicast
  - d) Data link

2. An IPv4 address is
- a) 32 bits long**
  - b) 64 bits long
  - c) 128 bits long
  - d) 192 bits long

3. IGMP stands for
- a) Internet Group Management Packet
  - b) Internet Group Management Path
  - c) Internet Group Management Protocol**
  - d) Internet Group Management Ping

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4. The 14.23.120.8 address lies in which class
- a) class A**
  - b) class B
  - c) class D
  - d) class E

5. ICMP stands for
- a) Internet Control Message Protocol**
  - b) Internet Control Message Provider
  - c) Internet Control Messenger
  - d) All of them

6. One of the main responsibilities of Internet Control Message Protocol (ICMP), is to report
- a) IP
  - b) Data
  - c) Queries
  - d) Errors**

7. The Dotted-decimal notation of 10000001 00001011 00001011 11101111 would be
- a) 193.131.27.255
  - b) 129.11.11.239**

### Error Detection and Correction & Data link layer

1. Find the even parity bit for 1001011
- a) 0**
  - b) 1
  - c) 2
  - d) None

2. CRC stands for
- a) combine resistance check
  - b) cyclic redundancy cod
  - c) combine redundancy code
  - d) cyclic redundancy check**

3. The checksum is used in the Internet by several protocols although not at the
- a) session layer
  - b) transport layer
  - c) network layer
  - d) data link layer**

4. The data link layer takes the packets from \_\_\_\_\_ and encapsulates them into frames for transmission.
- a) network layer**
  - b) physical layer
  - c) transport layer
  - d) application layer

5. Which one of the following task is not done by data link layer?
- a) framing
  - b) error control
  - c) flow control
  - d) channel coding**

### Switching

1. A Virtual-Circuit Network (VCN) is normally implemented in the
- a) session layer
  - b) data link layer
  - c) network layer**
  - d) physical layer

2. Virtual-Circuit Networks and datagram networks are the sub categories of

- a) message-switched networks
- b) Packet-switched networks**
- c) Circuit-Switched Networks
- d) None of them

3. In a packet-switched network, resources are allocated

- a) randomly
- b) on demand**
- c) reserved already
- d) both a and c

4. Datagram switching is done at the

- a) network layer
- b) physical layer
- c) session layer
- d) data link layer**

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5. Setup, data transfer, and connection teardown are three phases of

- a) circuit switching**
- b) packet switching
- c) message switching
- d) None

6. Circuit switching takes place at the

- a) session layer
- b) application layer
- c) data link layer
- d) physical layer.**

7. In Circuit Switching, the resources need to be reserved during the

- a) Data transfer phase
- b) teardown phase.
- c) setup phase**
- d) propagation phase

8. The Asynchronous Transfer Mode (ATM) network is an example of

- a) Packet switching network
- b) Datagram Networks
- c) Virtual circuit network**
- d) message switched network

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### **Network Security**

1. A proxy firewall filters at the

- a) physical layer
- b) application layer**
- c) data link layer
- d) network layer

2. A packet filter firewall filters at the

- a) application or transport
- b) data link layer
- c) physical
- d) network or transport layer**

### **KVS 2013**

1. The Internet Control Message Protocol ( ICMP )

- A. allows gateways to send error control message to other gateways or hosts.
- B. provides communication between the internet protocol software on one machine and the internet protocol software on another.
- C. only reports error conditions to the original source, the source must relate errors to individual application programs and take action to correct the problem.
- D. All of these.**

2. The closeness of the recorded version to the original sound is called

- A. fidelity**
- B. Digitization
- C. Sampling.
- D. Nyquist Theorem

3. Which layers of the OSI model are host to host layers ?

- A. Transport, Session, Presentation, Application**
- B. Network, Transport, Session, Presentation
- C. Datalink, Network, Transport, Session
- D. Physical, Datalink, Network, Transport

4. A \_\_\_\_\_ is a communication pathway connecting two or more devices. Another of its key characteristic is that it is a shared medium. A signal transmitted by any one device is available for reception by all other devices attached to it.

- A. Train  
C. Tram
- B. Bus**  
C. Aeroplane

5. Bridge works in which layer of the OSI model ?

- A. Application Layer.      B. Transport Layer  
C. Network Layer          **D. Datalink Layer**

6. What is the meaning of bandwidth in a network?

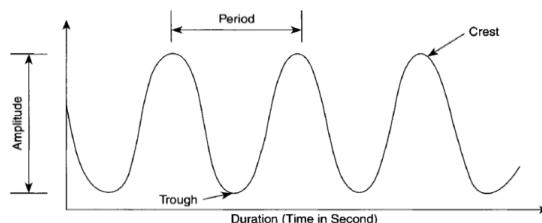
**A. Transmission capacity of a communication channel.**

- B. Connected computers in a network.  
C. Class of IP used in network.  
D. Interconnected by communication channels.

7. Which one of the following transmission systems provides the highest data rate to an individual device ?

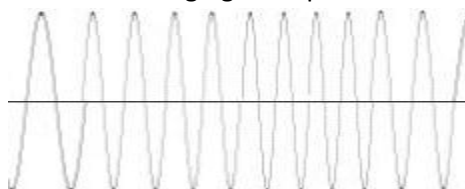
- A. Computer Bus**          B. Telephone Bus  
C. Voice mode              D. Lease lines

8. the diagram below depicts



**A. Sound in wave form.** B. Wind frequency  
C. Compressions on a map. D. Line of sight.

9. The following figure represents.



- A. Pure sine wave**              B. Sampling  
C. Pulse code modulation      D. Rarefaction

10. The process of taking a snapshot of the waveform at regular intervals and

representing it as a binary number is known as

**A. Sampling**

- B. Standard Assessment  
C. Sequential Formatting  
D. Sound structure

11. The X.25 standard specifies a

- A. Technique for start-stop data  
B. technique for dial access

**C. DTE/DCE interface.**

- D. Data bit rate.

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12. Frames from one LAN can be transmitted to another LAN via a device called

- A. Router                      **B. Bridge**  
C. Repeater                  D. Modem

13. With an IP of 100, you currently have 80 subnets. What subnet mask should you use to maximize the number of available host ?  
(Incomplete Question )

- A. 192                          B. 224  
C. 248                          **D. 252**

14. The \_\_\_\_\_ houses the switches in token ring

- A. Transceiver              B. Nine pin connector  
**C. MAU**                      D. NIC

15. In OSI network architecture, routing is performed by the

- A. network Layer**          B. Data Link Layer  
C. Transport Layer          D. Session Layer

16. The Hamming (7, 4) code for 0000 using even parity is

- A. 0000000**                  B. 1111111  
C. 2222222                  D. 12121212

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