## **Computer Networks**

| 1. A file is being transferred. The time required actually is 6- hours. The  |
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| mean time between crashes is 2- hours. The time required for the transfer is hours if synchronization is not provided.  a. 12 hours  b. 3 hours  c. Zero hours  d. Infinite                                      |
| 2. The information related to multi-programmed hosts is placed in the header of Layer a. Application layer b. Transport Layer c. Session layer d. Network Layer.   |
| 3. The Layer is a true end to end layer, from source to destination. a. Network Layer. b. Data Link Layer c. Data Layer d. Transport Layer   |
| 4. The operation of subnet is controlled by a. Network Layer. b. Data Link Layer c. Data Layer d. Transport Layer  |
| 5. Accounting Functions are the responsibility of Layer a. Network Layer. b. Data Link Layer c. Data Layer d. Transport Layer  |
| 6. Which one of the following is correct?? a. Character - represented by One's Complement b. Character - represented by Two's Complement c. Integer - represented by ASCII d. Character - represented by Unicode |
| 7. Multiplexing and Demultiplexing of Network connections is by  |
| Layer a Network Layer  |

- b. space division multiplexing
- c. frequency division multiplexing
- d. amplitude division multiplexing

## 137.What is PBX

- a. Public Branch eXchange
- b. Public Band exchange
- c. Private Branch eXchange
- d. Public Band eXchange

## 138.A \_ \_ \_ \_ provides a connection or a set of connection between switches.

- a. Transmission path
- b. Virtual path
- c. Virtual circuit
- d. Virtual connection
- 139.A \_\_\_\_\_ is the physical connection between an end point

and a switch or between two switches.

- a. Transmission path
- b. Virtual path
- c. Virtual circuit
- d. Virtual connection

| b. Data Layer<br>c. Data Link Layer<br>d. Transport Layer  |
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| 8. Two sides cannot attempt the same operation at the same time. This property is accomplished by Layer a. Session Layer b. Transport Layer c. Physical Layer d. Network Layer |
| 9. The number of layers in the OSI model is<br>a. 5<br>b. 4<br>c. 7<br>d. 8  |
| 10Layer contains network virtual terminal a. Application layer b. Session layer c. Presentation layer d. Data Link Layer   |
| 11.Presentation Layer is concerned with a. Synchronization b. Flow Control   |

12.Frame boundaries are recognized and created by \_\_\_\_\_

13. Token Management is the function of \_\_\_\_\_ Layer.

14. The function of Physical Layer is \_\_\_\_\_

d. Determine number of volts to represent 1 or 0.

c. Syntax and Semantics

d. File Transfer.

a. Application layerb. Data Link Layerc. Session layerd. Network Layer.

a. Application layerb. Data Link Layerc. Session layerd. Network Layer.

b. Piggybackingc. Flow Control

a. Error correction and Detection

Laver.

| 15.Security and privacy are less of an issue for devices in a  |
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| topology a. bus b. mesh c. star d. tree  |
| 16.A network that contains multiple hubs is most likely configured in a topology a. bus b. mesh c. star d. tree            |
| 17.In a network with 25 computers, which topology would require the most extensive cabling. a. bus b. mesh c. star d. tree |
| 18.A television broadcast is an example of transmission a. Simplex b. half-duplex c. full-duplex d. automatic              |
| 19.Which topology features a point-to-point line configuration? a. mesh b. star c. bus d. ring                             |
| 20.In a mesh topology, the relationship between one device and another is $\underline{\ }$                                 |
| a. primary-to-peer b. peer-to-primary c. primary-to-secondary d. peer-to-peer  |
| 21.A cable break in a topology stops all transmission a. bus b. mesh   |

| c. star<br>d. primary  |   |
|--|---|
| 22.Which topology requires a central controller or hub? a. mesh b. star c. bus d. ring                                     |   |
| 23.Which topology requires a multipoint connection? a. mesh b. star c. bus d. ring   |   |
| 24.Communication between a computer and a keyboard involves $\underline{\ }$   |   |
| a. Simplex b. half-duplex c. full-duplex d. automatic  |   |
| 25.A tree topology is a variation of a topology. a. mesh b. star c. bus d. ring  |   |
| 26.In a topology, if there are n devices in anetwork, each device has n-1 port for cables a. mesh b. star c. bus d. ring   |   |
| 27.A connection provides a dedicated link between two devices. a. point - to - point b. multipoint c. primary d. Secondary | n |
| 28.In a connection, more than two devices can shar a single link. [02507] a. point - to - point b. multipoint              | e |

| c. primary<br>d. Secondary  |
|---|
| 29.In transmission, the channel capacity is shared by both communicating devices at all times. a. Simplex b. half-duplex c. full-duplex d. automatic  |
| 30.Which Protocol is used for electronic mail? a. TELNET b. NNTP c. HTTP d. SMTP  |
| 31.The TCP/IP model has connection less communication inLayer a. Transport Layer b. Internet layer c. Presentation Layer d. Application Layer   |
| 32.The functions of internet Layer in TCP/IP are a. Flow Control and Error Control b. Congestion Control and Flow Control c. Packet Routing and Flow Control d. Congestion Control and Packet Routing |
| 33.The protocols used in Host to network layer of TCP/IP model are a. TEL NET and LAN b. ARPA NET and SAT NET c. PACKET RADIO and IP d. LAN and IP  |
| 34.HTTP is acronym of a. Hyper Text Transfer Protocol b. Hyper Text Transfer Protocol c. Hyper Text Transport Protocol d. Hyper Text Transport Program  |
| 35.The number of layers in TCP/IP model is<br>a. 5<br>b. 4  |

| c. 6<br>d. 7  |  |
|---|--|
| a. Connection Oriented b. Can be Connection Oriented and connection less c. Connection less d. Client Server type request   |  |
| 37.The protocol defined by internet layer in TCP/IP is a. TCP Protocol b. UDP Protocol c. SMTP d. IP P rotocol  |  |
| 38.Two protocols defined in Transport Layer of TCP/IP are   |  |
| a. TCP and IP  b. TCP and UDP  c. UDP and IP  d. TCP only   |  |
| 39. Which of the following is/are a connection oriented protocol(s)??   |  |
| a. TCP b. UDP c. TCP and UDP d. Neither TCP nor UDP   |  |
| 40.UDP has the following properties a. Connection oriented and reliable b. Connection Less and reliable c. Connection less and Unreliable d. Connection Oriented and Unreliable   |  |
| 41.Which of the following is the Layers of TCP/IP model? a. Physical, Network, Transport, Application b. Host to Network, Network, Presentation, Application c. Host to Network, Internet, Transport, Application d. Physical, Internet, Session, Application |  |
| 42.Which Layer contains High-level protocols in TCP/IP model? a. Application b. Presentation c. Transport d. Internet   |  |
| 43.The IP in TCP/IP uses bit addresses but IPX in Novell Netware uses bit addresses   |  |

| <b>a. 4, 12</b> b. 12, 4 c. 8, 16 d. 16, 8  |
|---|
| 44.In the earlier ARPA NET each node of network consisted a. TIP & a host b. BBN & a host c. IMP & a host d. SAP & a host   |
| 45.Novell Netware is based on a. XNS b. OSI c. TCP/IP d. TIP  |
| 46.The protocols used in Transport layer of Novell Netware  |
| a. NCP & SAP b. NCP & IPX c. NCP & SPX d. NCP & TIP   |
| 47.IPX in Novell Netware is functionally similar to Protocol a. TCP b. IP c. UDP d. SAP   |
| 48.The address in Novell Netware contains a. 32- bit Network Number, 48-bit Machine Number & 16-bit Local   |
| address b. 16- bit Network Number, 32-bit Machine Number & 48-bit Local address c. 48- bit Network Number, 16-bit Machine Number & 32-bit Local address d. 16- bit Network Number, 48-bit Machine Number & 32-bit Local address |
| 49.The physical layer of Novell Netware consists of protocol a. IPX b. NCP c. SAP d. ARC NET  |
| 50.The connection oriented transport protocol in Novell Netware is _  |
|   |

| a. NCP b. IPX c. SAP d. Ethernet   |
|--|
| 51.IPX is used in layer of Novell Netware a. Application b. Transport c. Network d. Physical   |
| 52.Expand SAP in Novell Netware a. Service access point b. Special Access Point c. Service access protocol d. Service Advertising Protocol   |
| 53.Minicomputers in ARPANET are called a. ARPA Computers b. IMP c. BBN d. DARPA Computers  |
| 54.Expand TIP in ARPA NET  a. Touch Interest protocol  b. Terminal Interface protocol  c. Transport International Protocol  d. Terminal Interface protocol  55 was created to organize machines into Domains and  map hostnames into IP addresses.  a. BBN  b. IMP  c. TIP  d. DNS |
| 56.Internet is based on protocol stack. a. XNS b. IMP c. TCP/IP d. SAP   |
| 57.The topology not used in LAN is<br>a. Ring<br>b. Star<br>c. Bus<br>d. Mesh  |

| 58.When packets are small and all are equal sized then they are called a. Frames b. Small Packets c. Cells d. Atoms       |
|---|
| 59.Irregular topologies are used in a. LAN b. WAN c. MAN d. Broadcast Networks  |
| 60.Traditional LANs run at the speed of a. 100 to 1000 MBPS b. 1000 to 10000 MBPS c. 10 to 100 MBPS d. 10 to 100 GBPS     |
| 61.Which of the following is not a characteristic of LAN a. Size b. Transmission Technology c. Topology d. Routers        |
| 62.In static allocation of channel in LAN Broadcast Networks  |
| a. FCFS b. Round Robin c. Shortest Frame first d. High priority first   |
| 63.In Network, there is a broadcast medium to which all computers are attached a. MAN b. LAN c. WAN d. Broadcast Networks |
| 64.Privately owned networks are a. MAN b. LAN c. WAN d. Broadcast Networks  |
|   |

| b. MAN c. WAN d. Broadcast Networks   |
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| 66 Broadcast Networks can be divided into Static and dynamic depending on channel allocation a. MAN b. LAN c. Broadcast Networks d. WAN |
| 67.Local Cable TV Network is an example for a. WAN b. Broadcast c. LAN d. MAN   |
| 68.The IEEE standard for DQDB is<br>a. 802.3<br>b. 802.4<br>c. 802.6<br>d. 802.5  |
| 69.Hosts in WAN are connected by a. Communication Line b. Subnet c. Router d. Another host Computer                                     |
| 70.Which one is not a transmission line? a. Circuits b. Channels c. Trunks d. Paths   |
| 71.Satellite or ground radio is an example for a. WAN b. MAN c. LAN d. Broadcast Networks   |
| 72.LASERs face a inhibition on a. sunny day b. dry day c. windy day d. rainy day  |

| 73 transmission has more suitable for indoor wireless LANs a. radio b. micro wave c. infra red d. light wave   |
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| 74 category twisted pairs are called as unshielded twisted pair a. Category 1 b. Category 3 c. Category 5 d. Category 3 & Category 5   |
| 75.Which of the following is not considered an important use of microwaves a. Industrial bands b. scientific bands c. medical bands d. entertainment bands                       |
| 76.The number of oscillations per second of anelectromagnetic wave is called its and is measured in ] a. wave length ,mts b. frequency,Hz c. amplitude, mts d. time period, secs |
| 77.The mode of transmission most suitable is a. twisted pair b. fibre optics c. wireless d. coax   |
| 78.A modern application to connect the LANs in two buildings is throughtransmission] a. radio b. micro wave c. infra red d. light wave   |
| 79.What is advantage of twists for a wire ] a. Data lose b. Noise reduction c. No noise d. Added noise   |

| 80.In fiber optics a pulse of light indicates a. 1 bit b. 0 bit c. 1 byte d. 8 bits  |
|--|
| 81 kind of coaxial cable is used for analog transmission a. Base band b. Broad band c. Category 3 d. Fiber   |
| 82.As we go from long-wave radio towards visible light, the waves behave more and more like and less and less like a. radio, light b. light., radio c. radio , micro wave d. micro wave, light |
| 83.Multipath fading the signal a. enhances b. adds to c. cancels d. maximizes  |
| 84.In micro wave transmission concentrating all the energy into a small beam using a parabolic antenna gives a signal to noise ratio a. lower b. higher c. degraded d. subtle                  |
| 85.Radio waves are a. uni directional b. bi directional c. multidirectional d. omnidirectional   |
| 86.The fundamental relation between frequency (f), wave length (I) and speed(c) a. f*c=I b. f/I=c c. I*c=f d. f*I=c 87.Speed of light is a. 3*10 8 m/s   |

| b. 3                         | *10 ₃ cm/sec  |
|------------------------------|---|
|                              | *10 <sub>9</sub> m/s  |
| <b>d</b> . 3                 | *10 <sub>9</sub> cm/sec   |
| 88.lı                        | n transparent Bridges, all the decisions are made by looking into   |
|                              | _   |
| b. De<br><b>c. H</b> a       | dvertisement Tables<br>escription Tables<br>ash Tables  |
| d. Fr                        | agment Tables   |
| 89.11                        | f destination LAN is unknown in Transparent Bridges then we use   |
|                              | _   |
| <b>b. Fl</b><br>c. Sh        | nk State Routing<br>looding<br>ortest Path Routing<br>ow Based Routing  |
| <b>a. H</b> ab. So<br>c. Hy  | Which among the below of source routing bridges is complex?<br>ardware<br>oftware<br>orbrid<br>emote                                      |
| <b>91.C</b> a. Trab. Spc. Re | Configuration of is manual ansparent panning Tree emote course Routing  |
| a. Tra<br>b. Sp<br>c. Re     | n LAN with token ring topology, are used ansparent banning Tree emote ource Routing   |
| the t                        | configuration of N LANs is linearly connected by 4 bridges. By<br>time<br>reach the Nth LAN how many discovery frames will be<br>ulating? |
| а. м                         | 4   |
| b. <b>4</b>                  |   |
| C. 4                         | N   |
| d. N                         |   |
|                              |   |

| 94.Which of the following is not an internetworking device? a. Bridge b. Repeater c. Router d. Cable   |
|--|
| 95.What type of bridge must have its address table entered manually? a. Simple b. Transparent c. Multi port d. Source routing                  |
| 96.A bridge has access to the address of a station on the same network. a. Physical b. Network c. Service access point d. Logical              |
| 97.In source routing bridges frame is used to discover the destination a. Discovery b. Control c. Data d. Acknowledgement                      |
| 98.LAN's can be connected by a device called a. Routers b. Modems c. Ethernet card d. Bridges  |
| 99.In all frames are given to the computer, not to those addressed a. Promiscuous mode b. Miscues mode c. Normal mode d. Special Mode          |
| 100 Algorithm is used in transparent bridges a. Forward Learning b. Backward Learning c. Reverse Backward Learning d. Reverse Forward Learning |

| a. Host b. Bridge c. Network layer d. Router  |
|---|
| 102.CSMA/CD and token bus user choose bridge a. Source routing bridge b. Transparent bridge c. Remote bridge d. Selective Bridges |
| 103 bridge operates in promiscuous mode] a. Transparent bridge b. Selective flooding c. Source Routing d. Remote Bridges          |
| 104.In source routing bridges each LAN has a unique bit no. a. 10 b. 8 c. 16 d. 12  |
| 105.Source routing bridges in the same LANs must have bridge Number a. Same b. Different c. Source d. Destination                 |
| 106.Repeater function in the layer a. Physical b. Data link c. Network d. Transport   |
| 107.Bridges function in the layer. a. Physical b. Data link c. Network d. Transport   |
| 108.A repeater takes a weakened or corrupted signal andit a. Amplifies b. Regenerates c. Resample d. Reroute                      |

| a. packet-switched b. circuit-switched c. message-switched d. TSI   |
|---|
| 110.In, each packet of a message follows the same path from sender to receiver a. Circuit switching b. message switching c. a virtual approach to packet switching d. The datagram approach to packet switching |
| 111.In a time division switch, a governs the destination of a packet stored in RAM a. TDM bus b. cross bar c. cross point d. control unit   |
| 112.How many cross points are needed in a single stage switch with 40 inputs and 50 outputs a. 40 b. 50 c. 90 d. 2000   |
| 113.The of A TSI controls the order of delivering of slot values that are stored in RAM a. cross bar b. cross point c. control unit d. transreceiver  |
| 114.In circuit switching, delivery of data is delayed because data must be stored and retrieved from RAM.  a. Space-division b. time-division c. virtual d. packet  |
| 115.To create a , combine crossbar switches in stages a. Multistage switch b. cross point c. packet switch  |

| d. TSI   |
|--|
| 116.In each packet of a message need not follow the same path From sender to receiver a. Circuit switching b. message switching c. a virtual approach to packet switching d. The datagram approach to packet switching |
| 117.An important property of circuit switching is the need to setup an endto- end path any data can be sent a. after b. before c. along with which d. avoiding which   |
| 118.The elapsed time between the end of dialing and the start of ringing can be a minimum of a. 1sec b. 10sec c. 100sec d. 1000sec   |
| 119.A network using message switching is called a. store-and-forward b. forward-and-store c. store-and-send d. send-and-store  |
| 120 Networks place a tight upper limit on block size, allowing packets to be buffered in router main memory instead of on disk. a. Message switching b. circuit switching c. packet switching d. store-and-forward     |
| 121.Which type of switching uses the entire capacity of a dedicated link? a. Circuit switching b. datagram packet switching c. virtual circuit packet switching d. Message switching                                   |

| 122.The is a device that connects n inputs to m outputs a. Cross point b. cross bar c. modem d. RAM  |
|--|
| 123.In which type of switching do all the datagrams of a message follow the same channels of a path a. Circuit switching b. datagram packet switching c. virtual circuit packet switching d. message switching |
| 124.which ISDN plane is associated with signaling another D channel a. user b. control c. management d. supervise 125.When you store and forward messages in B-ISDN, you are using                             |
| a. Conversational b. messaging c. retrieval d. distributive  |
| 126.Commercial TV is an example of a. messaging services b. Conversational services c. distributional services without user control d. distributional services with user control                               |
| 127.The normal user interface to an ISDN is PRI or a. Bit Rate Interface b. Basic Rate Interface c. Byte Rate Interface d. Broad Rate Interface  |
| 128.The reference point U is a specification for connecting the ISDN office with a. NT1 b. NT2 c. TE1 d. TE2   |
| 129.A banyan switch parsers the output line number from  |
| a. snake-like  |

| b. left to right c. right to left d. top to bottom  |
|---|
| 130.For n line, the complexity of a batcher switch grows like $\_\_\_\_$  |
| a. Log n b. n <sub>2</sub> c. n log n d. n log <sub>2</sub> n   |
| 131.The ISDN equivalent of DTE is a. TE1 b. TE2 c. NT1 d. TA  |
| a. Information Services for Digital Networks b. Internetwork System for Data Networks c. Integrated Services Digital Network d. Integrated Signals Digital Network                                      |
| 133.Which of the following channel types is not standardized a. 4 kHz analog telephone channel b. 64kbps digital PCM channel for voice or data c. 16 kbps digital channel d. 16 kbps analog channel     |
| 134.Equipment that performs functions related to the OSI model's layers 1, 2 & 3 is called a. NT1 b. NT2 c. NT3 d. NT4  |
| 135.The key idea behind ISDN is that of the, a conceptual pipe between the customer and the carrier through which bits flow a. digital byte pipe b. analog bit pipe c. digital pipe d. digital bit pipe |
| 136.The digital bit pipe can support multiple independent channels by of the bit stream. a. time division multiplexing  |

| b. space division multiplexing  |
|---|
| c. frequency division multiplexing<br>d. amplitude division multiplexing  |
| 137.What is PBX a. Public Branch eXchange b. Public Band exchange c. Private Branch eXchange d. Public Band eXchange  |
| 138.A provides a connection or a set of connection between switches. a. Transmission path b. Virtual path c. Virtual circuit d. Virtual connection                        |
| 139.A is the physical connection between an end point and a switch or between two switches. a. Transmission path b. Virtual path c. Virtual circuit d. Virtual connection |
| 140.The VPI of a UNI is bits in length a. 8 b. 12 c. 16 d. 24   |
| <b>141.The VPI of a NNI is bits in length</b> a. 8 <b>b. 12</b> c. 16 d. 24   |
| 142.In a VP switch the $\_\_\_\_$ does not change while the $\_\_\_$  |
| can change . a. VPI, VCI b. VCI, VPI c. VP, VPC d. VPC, VP  |