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Network final revision Part I MCQ Questions

Multiple Choice Questions of Computer Networking

| 1- Computer Network is | |
|---|--|
| A. Collection of hardware components and | d computers |
| B. Interconnected by communication chan | nels |
| C. Sharing of resources and information | |
| D. All of the Above | |
| 2-What is a Firewall in Computer Netwo | ork? |
| A. The physical boundary of Network | B. An operating System of Computer Network |
| C. A system designed to prevent unauthori | zed access D. A web browsing Software |
| 3-How many layers does OSI Reference | Model has? |
| A. 4 B. 5 C. 6 | <u>D. 7</u> |
| 4-DHCP is the abbreviation of | |
| A. Dynamic Host Control Protocol | B. Dynamic Host Configuration Protocol |
| C. Dynamic Hyper Control Protocol | D. Dynamic Hyper Configuration Protocol |
| 5IPV4 Address is | |
| A. 8 bit B. 16 bit <u>C. 32 bi</u> t | D. 64 bit |
| 6-DNS is the abbreviation of | |
| A. Dynamic Name System | B. Dynamic Network System |
| C. Domain Name System | D. Domain Network Service |
| 7-What is the meaning of Bandwidth in | Network? |
| A. Transmission capacity of a communication | tion channels B. Connected Computers in the Network |
| C. Class of IP used in Network | D. None of Above |
| 8-ADSL is the abbreviation of | |
| A. Asymmetric Dual Subscriber Line | B. Asymmetric Digital System Line |
| C. Asymmetric Dual System Line | D. Asymmetric Digital Subscriber Line |
| 9What is the use of Bridge in Network | ? |
| A. to connect LANs | B. to separate LANs |
| C. to control Network Speed | D. All of the above |
| 10- Router operates in which layer of O | SI Reference Model? |
| A. Layer 1 (Physical Layer) | B. Layer 3 (Network Layer) |
| C. Layer 4 (Transport Layer) | D. Layer 7 (Application Layer) |
| 11- Each IP packet must contain | |
| A. Only Source addresses | B. Only Destination address |
| C. Source and Destination address | D. Source or Destination address |
| 12- Bridge works in which layer of the C | |
| A. Application layer B. Transport lay | · ———————————————————————————————————— |
| 13 provides a connection-orien | ted reliable service for sending messages |
| A. TCP B. IP C. UD | D. All of the above |
| 14-Which layers of the OSI model are h | ost-to-host layers? |
| A. Transport, Session, Persentation, Applie | <u>cation</u> B. Network, Transport, Session, Presentation |
| C. Datalink, Network, Transport, Session | D. Physical, Datalink, Network, Transport |
| 15-Which of the following IP address cla | ass is Multicast |
| A. Class A B. Class B | C. Class C <u>D. Class D</u> |
| 16-Which of the following is correct reg | = |
| A. Network bit -14 , Host bit -16 | B. Network bit -16 , Host bit -14 |
| C. Network bit -18 , Host bit -16 | D. Network bit -12 , Host bit -14 |

17-The last address of IP address represents A. Unicast address B. Network address C. Broadcast address D. None of above 18-How many bits are there in the Ethernet address? B. 48 bits C. 32 bits D. 16 bits A. 64 bits 19-How many layers are in the TCP/IP model? B. 5 layers C. 6 layers D. 7 layers A. 4 layers 20-Which of the following layer of OSI model also called end-to-end layer? B. Network layer A. Presentation layer C. Session layer D. Transport layer 21-Why IP Protocol is considered as unreliable? A. A packet may be lost B. Packets may arrive out of order C. Duplicate packets may be generated D. All of the above 22- What is the minimum header size of an IP packet? A. 16 bytes B. 10 bytes C. 20 bytes D. 32 bytes 23- Which of following provides reliable communication? B. IP A. TCP C. UDP D. All of the above 24-What is the address size of IPv6? A. 32 bit B. 64 bit C. 128 bit D. 256 bit 25-What is the size of Network bits & Host bits of Class A of IP address? A. Network bits 7, Host bits 24 B. Network bits 8, Host bits 24 C. Network bits 7, Host bits 23 D. Network bits 8, Host bits 23 26-What does Router do in a network? A. Forwards a packet to all outgoing links B. Forwards a packet to the next free outgoing link C. Determines on which outing link a packet is to be forwarded D. Forwards a packet to all outgoing links except the originated link 27-The Internet is an example of B. circuit switched network A. Cell switched network C. Packet switched network D. All of above 28-What does protocol defines? A. Protocol defines what data is communicated. B. Protocol defines how data is communicated. C. Protocol defines when data is communicated. D. All of above 29-What is the uses of subnetting? A. It divides one large network into several smaller ones B. It divides network into network classes C. It speeds up the speed of network D. None of above 30-Repeater operates in which layer of the OSI model? B. Data link layer C. Network layer A. Physical layer D. Transport layer 31-What is the benefit of the Networking? A. File Sharing B. Easier access to Resources C. Easier Backups D. All of the Above 32-Which of the following is not the Networking Devices? A. Gateways B. Linux C. Routers D. Firewalls 33-What is the size of MAC Address? B. 32-bits C. 48-bits D. 64-bits A. 16-bits 34- Which of the following can be Software? A. Routers B. Firewalls C. Gateway D. Modems 35-What is the use of Ping command? A. To test a device on the network is reachable B. To test a hard disk fault C. To test a bug in an Application D. To test a Pinter Quality **36-.** MAC Address is the example of

C. Application Layer

D. Physical Layer

B. Data Link Layer

A. Transport Layer

37-Routing tables of a router keeps track of A. MAC Address Assignments B. Port Assignments to network devices C. Distribute IP address to network devices D. Routes to use for forwarding data to its destination 38-Layer-2 Switch is also called D. Multiport NIC A. Multiport Hub B. Multiport Switch C. Multiport Bridge 39- Difference between T568A and T568B is A. Difference in wire color B. Difference in number of wires C. Just different length of wires D. Just different manufacturer standards 40-. The meaning of Straight-through Cable is A. Four wire pairs connect to the same pin on each end B. The cable Which Directly connects Computer to Computer C. Four wire pairs not twisted with each other D. The cable which is not twisted 41-Which of the following is not the External Security Threats? A. Front-door Threats B. Back-door Threats C. Underground Threat D. Denial of Servic (DoS) 42-What is the Demilitarized Zone? A. The area between firewall & connection to an external network B. The area between ISP to Military area C. The area surrounded by secured servers D. The area surrounded by the Military 43-What is the full form of RAID? A. Redundant Array of Independent Disks B. Redundant Array of Important Disks C. Random Access of Independent Disks D. Random Access of Important Disks 44-What is the maximum header size of an IP packet? A. 32 bytes B. 64 bytes C. 30 bytes D. 60 bytes 45-What is the size of Host bits in Class B of IP address? A. 04 B. 08 C. 16 D. 32 46-What is the usable size of Network bits in Class B of IP address? A. 04 B. 08 C. 14 47-In which type of RAID, data is mirrored between two disks. A. RAID 0 B. RAID 1 C. RAID 2 D. RAID 3 48-What do you mean by broadcasting in Networking? A. It means addressing a packet to all machines B. It means addressing a packet to some machine C. It means addressing a packet to a particular machine D. It means addressing a packet to except a particular machine 49-Which of the following is/are Protocols of Application? B. DNS C. Telnet 50-Which of the following protocol is/are defined in Transport layer? A. FTP B. TCP C. UDP D. B & C 51-What is the IP Address range of APIPA? A. 169.254.0.1 to 169.254.0.254 B. 169.254.0.1 to 169.254.0.255 C. 169.254.0.1 to 169.254.255.254 D. 169.254.0.1 to 169.254.255.255 **52-Which of the following is correct in VLSM?** A. Can have subnets of different sizes B. Subnets must be in same size C. No required of subnet D. All of above 53-What does the port number in a TCP connection specify? A. It specifies the communication process on the two end systems

D. All of the above

B. It specifies the quality of the data & connection

C. It specify the size of data

| A. Modern Model B. Classful Model C. Classless Model D. Heterogeneous Model |
|--|
| 55-Which of the following is correct in CIDR? |
| A. Class A includes Class B network B. There are only two networks |
| C. There are high & low class network D. There is no concept of class A, B, C networks |
| 56-What is the size of Source and Destination IP address in IP header? |
| A. 4 bits B. 8 bits C. 16 bits D. 32 bits |
| 57-Which of the following is reliable communication? |
| A. TCP B. IP C. UPD D. All of them |
| 58-What is the typical range of Ephemeral ports? |
| A. 1 to 80 B. 1 to 1024 C. 80 to 8080 D. 1024 to 65535 |
| 59-What is the purpose of the PSH flag in the TCP header? |
| A. Typically used to indicate end of message B. Typically used to indicate beginning of message |
| C. Typically used to push the message D. Typically used to indicate stop the message |
| 60-What is the natural mask for a class C Network? |
| A. 255.255.255.1 B. 255.255.255.0 C. 255.255.254 D. 255.255.255.255 |
| |
| 61-When collection of various computers seems a single coherent system to its client, then it is called |
| |
| a) Computer network <u>b) Distributed system</u> c) Both (a) and (b) d) None of the mentioned 62-Two devices are in network if |
| |
| a) A process in one device is able to exchange information with a process in another device |
| b) A process is running on both devices |
| c) PIDs of the processes running of different devices are same |
| d) None of the mentioned |
| 63-Which one of the following computer network is built on the top of another network? |
| a) prior network b) chief network c) prime network d) overlay network |
| 64-A is a device that forwards packets between networks by processing the routing |
| information included in the packet. |
| a) bridge b) firewall c) router d) all of the mentioned |
| , , |
| 65-Which one of the following extends a private network across public networks? |
| , , |
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| 74-MAC address | s is of | | | |
|----------------------|-----------------------------|------------------------|------------------|----------------------------------|
| 1) 24 bits 1 | o) 36 bits | c) 42 bits | d) 48 bits | |
| 75-High speed et | thernet works on | | | |
| | b) twisted pair c | | | d) none of the mentioned |
| 76-The maximum | n size of payload | field in ethernet | frame is | |
| a) 1000 bytes | b) 1200 bytes | c) 1300 byte | s <u>d) 15</u> | 500 bytes |
| | set of rules that | | | |
| a) Protocols | b) Standards | c) RFCs | d) Server | s |
| 78- How many la | yers are present | in the Internet p | rotocol stack (| TCP/IP model)? |
| <u>a) 5</u> b) 7 | c) 6 | d) 10 | | |
| 79- Which addre | ess is used to iden | tify a process on | a host by the t | ransport layer? |
| a) physical addres | ss b) logical a | address <u>c) po</u> | ort address | d) specific address |
| 80-Transmission | data rate is deci | ded by | | |
| a.network layer | b.physical lay | <u>er</u> c.data linl | d layer d | transport layer |
| The section cont | ains questions on | physical layer, o | lata link layer, | transport layer and network |
| <u>layer.</u> | | | | |
| 81-The physical | layer is concerne | d with | | |
| a) bit-by-bit deliv | <u>ery</u> | p) p | process to proce | ss delivery |
| c) application to a | ery_ application deliver | y d) | port to port del | ivery |
| 82-Which transn | nission media pro | ovides the highes | t transmission | speed in a network? |
| a) coaxial cable | b) twisted p | pair cable <u>c) o</u> | ptical fiber | d) electrical cable |
| | | | | ccess control sublayer is called |
| a) physical signal | ling sublayer | b) physical | data sublayer | |
| c) physical address | | d) physical t | | er |
| 84-the physical l | ayer provides | | | |
| a) mechanical spe | ecifications of elec | trical connectors | and cables | |
| b) electrical speci | fication of transmi | ission line signal | level | |
| c) specification for | or IR over optical f | fiber | | |
| d) all of the menti | ioned | | | |
| 85-The physical | layer is responsib | ole for | | |
| | | | nodulation | d) all of the mentioned |
| 86-The physical | layer translates l | ogical communic | ation requests | from the into hardward |
| specific operation | ns. | | | |
| a) data link layer | b) network lay | yer c) tras | nport layer | d) application layer |
| 87-Wireless tran | smission of signa | ls can be done vi | a | - |
| a) radio waves | b) microwave | es c) infra | red <u>d)</u> | all of the mentioned |
| 88-The network | layer is concerne | d with | of data. | |
| | | packets | | |
| 89-Which one of | the following is r | not a function of | network layer' | ? |
| a) routing b |) inter-networking | c) conges | tion control | d) error control |
| 90-A 4 byte IP a | ddress consists of | | | |
| a) only network a | ddress | b) onl | y host address | |
| c) network address | ss & host address | d) netwo | ork address & N | IAC address |
| 91-In virtual circ | cuit network each | packet contains | · | |
| a) full source and | destination address | ss <u>b) a sh</u> | ort VC number | |
| c) only source add | dress | d) only | destination add | ress |
| | | • | | ns no loops is called |
| a) spanning tree | | ructure c) s | | - |
| | the following alg | | • | |
| a) traffic aware ro | | b) admission con | _ | |
| c) load shedding | - | d) routing inform | ation protocol | |

| 94-The network layer protocol for internet is |
|--|
| a) Ethernet <u>b) internet protocol</u> c) hypertext transfer protocol d) file transfer protocol |
| 95-Transport layer aggregates data from different applications into a single stream before |
| passing it to |
| a) network layer b) data link layer c) application layer d) physical layer |
| 96-Which of the following are transport layer protocols used in networking? |
| a) TCP and FTP b) UDP and HTTP c) TCP and UDP d) HTTP and FTP |
| 97User datagram protocol is called connectionless because |
| a) all UDP packets are treated independently by transport layer |
| b) it sends data as a stream of related packets |
| c) it is received in the same order as sent order |
| d) it sends data very quickly |
| 98-Transmission control protocol |
| a) is a connection-oriented protocol b) uses a three way handshake to establish a connection |
| c) receives data from application as a single stream <u>d) all of the mentioned</u> |
| 99-An endpoint of an inter-process communication flow across a computer network is called |
| a) socket b) pipe c) port d) machine |
| 100-Which one of the following is a version of UDP with congestion control? |
| a) datagram congestion control protocol b) stream control transmission protocol |
| c) structured stream transport d) user congestion control protocol |
| 101-A is a TCP name for a transport service access point. |
| a) port b) pipe c) node d) protocol |
| 102-Transport layer protocols deals with |
| a) application to application communication b) process to process communication |
| c) node to node communication d) man to man communication |
| 103-Which of the following is a transport layer protocol? |
| a) stream control transmission protocol b) internet control message protocol |
| c) neighbor discovery protocol d) dynamic host configuration protocol |
| 104-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 |
| 105-Which of the following tasks is not done by data link layer? |
| a) framing b) error control c) flow control <u>d) channel coding</u> |
| 106-Header of a frame generally contains |
| a) synchronization bytes b) addresses c) frame identifier d) all of the mentioned |
| 107-Automatic repeat request error management mechanism is provided by |
| a) logical link control sublayer b) media access control sublayer |
| c) network interface control sublayer d) application access control sublayer |
| 108-When 2 or more bits in a data unit has been changed during the transmission, the error is |
| called |
| a) random error b) burst error c) inverted error d) double error |
| 109-CRC stands for |
| a) cyclic redundancy check b) code repeat check c) code redundancy check d) cyclic repeat check |
| 110-Which of the following is a data link protocol? |
| a) Ethernet b) point to point protocol c) hdlc d) all of the mentioned |
| This set of Computer Networks Multiple Choice Questions & Answers (MCQs) focuses on TCP |
| 111-Which of the following is false with respect to TCP? |
| a) Connection-oriented b) Process-to-process c) Transport layer protocol d) Unreliable |
| 112-In TCP, sending and receiving data is done as |
| a) Stream of bytes b) Sequence of characters c) Lines of data d) Packets |

| 113-TCP process may not write and read data at the same speed. So we need for |
|--|
| storage. |
| a) Packets b) Buffers c) Segments d) Stacks |
| 114-TCP groups a number of bytes together into a packet called |
| a) Packet b) Buffer c) Segment d) Stack |
| 115-Communication offered by TCP is |
| a) Full-duplex b) Half-duplex c) Semi-duplex d) Byte by byte |
| 116-To achieve reliable transport in TCP, is used to check the safe and sound |
| arrival of data. |
| a) Packet b) Buffer c) Segment d) Acknowledgment |
| 117-In segment header, sequence number and acknowledgement number fields refer to |
| a) Byte number b) Buffer number c) Segment number d) Acknowledgment |
| 118-Suppose a TCP connection is transferring a file of 1000 bytes. The first byte is numbered |
| 10001. What is the sequence number of the segment if all data is sent in only one segment? |
| a) 10000 b) 10001 c) 12001 d) 11001 |
| 119-Bytes of data being transferred in each connection are numbered by TCP. These numbers |
| start with a |
| a) Fixed number b) Random sequence of 0's and 1's |
| c) One d) Sequence of zero's and one's |
| 120-The value of acknowledgement field in a segment defines |
| a) sequence number of the byte received previously b) total number of bytes to receive |
| c) sequence number of the next byte to be received d) sequence of zeros and ones |
| 121-The receiver of the data controls the amount of data that are to be sent by the sender is |
| |
| a) Flow control b) Error control c) Congestion control d) Error detection |
| 122-Size of TCP segment header ranges between |
| |
| a) 16 and 32 bytes b) 16 and 32 bits c) 20 and 60 bytes d) 20 and 60 bits |
| 123-Connection establishment in TCP is done by which mechanism? |
| a) Flow control b) Three-Way Handshaking c) Forwarding d) Synchronization |
| 124-The server program tells its TCP that it is ready to accept a connection. This process is |
| called |
| a) Active open b) Active close c) Passive close d) Passive open |
| 125- A client that wishes to connect to an open server tells its TCP that it needs to be connected |
| to that particular server. The process is called |
| a) Active open b) Active close c) Passive close d) Passive open |
| 126-The sizes of source and destination port address in TCP header are |
| respectively. |
| a) 16-bits and 32-bits b) 16-bits and 16-bits c) 32-bits and 16-bits d) 32-bits and 32-bits |
| 127-Which of the following is false with respect to UDP? |
| a) Connection-oriented b) Unreliable c) Transport layer protocol d) Low overhead |
| 128- What is the main advantage of UDP? |
| a) More overload b) Reliable c) Low overhead d) Fast |
| 129-What is the header size of a UDP packet? |
| a <u>) 8 bytes</u> b) 8 bits c) 16 bytes d) 124 bytes |
| 130-Which of these is not applicable for IP protocol? |
| a) is connectionless <u>b) offer reliable service</u> |
| c) offer unreliable service d) None of the mentioned |
| 131-Collection of network or networks is called |
| a.Intranet b.Internet c.Extranet d.LAN network |

| 132-Hardware address is known as | |
|---------------------------------------|---|
| | P Address |
| c) Network Interface Card d) | |
| 133-MAC stands for | |
| a) Media Area Control b) 1 | Memory Access Control |
| | Media Access Control |
| 134-What translates IP address into | <u> </u> |
| a) Organizationally Unique Identifier | b) Address Resolution Protocol |
| c) Network Interface Card | d) Burned In Address |
| 135-Does MAC address contain cha | racters. |
| a) True b) False | |
| 136- MAC addresses are very usefu | l in diagnosing network issues. |
| a) True b) False | |
| 137- On wireless networks | _ filtering is the security measure. |
| a) OUI b) IP c) NIC | |
| 138-MAC addresses are used as | |
| a) Network addresses b) IP addre | ss c) Hardware address d) Burned in address |
| 139-The original IEEE 802 MAC ac | ddress comes from |
| a) MAC address b) IP address | c) Ethernet address d) Http |
| 140-IEEE s tandards for Institute o | f Electrical and Electronics Engineers. |
| a) False <u>b) True</u> | |
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