

18CSC302J-COMPUTER NETWORKS
QUESTION BANK
UNIT-II
(MULTIPLE CHOICE QUESTIONS)

S.NO	QUESTION	BLOOMS LEVEL	CLO
1	<p>Bytes of data being transferred in each connection are numbered by TCP. These numbers start with a _____</p> <p>Fixed number</p> <p>Random sequence of 0's and 1's</p> <p>One</p> <p>Sequence of zero's and one's</p> <p>Answer: D</p>	L1	CLO2
2	<p>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?</p> <p>10000</p> <p>10001</p> <p>12001</p> <p>11001</p> <p>Answer: D</p>	L2	CLO2
3	<p>The socket function creates sockets on demand. It takes three integer arguments and returns an integer result:</p> <p>result = socket(pf, type, protocol)</p> <p>result = socket(df, type, protocol)</p> <p>result = socket(sf, type, protocol)</p> <p>result = socket(rf, type, protocol)</p> <p>Answer: A</p>	L1	CLO2
4	<p>_____ is a structure that specifies the local address to which the socket should be bound, and argument addrlen is an integer that specifies the length of the address measured in bytes.</p> <p>Arg localaddr</p> <p>Address localaddr</p> <p>Addrlen localaddr</p> <p>Argument localaddr</p> <p>Answer: D</p>	L1	CLO2

5	<p>The two additional arguments are pointers to a socket address structure and an integer</p> <p>froaddr and addrlen</p> <p>fromaddr and addlen</p> <p>fromaddr and addrlen</p> <p>frmaddr and adrlen</p> <p>Answer: C</p>	L1	CLO2
6	<p>A process calls _____ to determine the address of the peer to which a socket connects.</p> <p>getpeemame</p> <p>putpeemame</p> <p>gtpeemame</p> <p>Ptpeemame</p> <p>Answer: A</p>	L1	CLO2
7	<p>The _____ field contains a count of octets in the UDP datagram, including the UDP header and the user data.</p> <p>BYTE</p> <p>BIT</p> <p>LENGTH</p> <p>SERVICE</p> <p>Answer: C</p>	L1	CLO2
8	<p>_____ is a thin protocol in the sense that it does not add significantly to the semantics of IP.</p> <p>TCP/IP</p> <p>UDP</p> <p>FTP</p> <p>TFTP</p> <p>Answer: B</p>	L1	CLO2
9	<p>The Trivial File Transfer Protocol, TFTP, provides a small, simple alternative to _____ for applications that need only file transfer.</p> <p>FTP</p> <p>TCP</p> <p>UDP</p> <p>TCP/IP</p>	L1	CLO2

	Answer: C		
10	<p>Default subnet mask for class C network is</p> <p>A. 127.0.0.5</p> <p>B. 255.255.255.0</p> <p>C. 255.255.0.0</p> <p>D. 255.0.0.9</p> <p>Answer: B</p>	L2	CLO2
11	<p>_____ use network bandwidth better because they allow the sender to transmit multiple packets before waiting for an acknowledgement.</p> <p>Sliding window protocols</p> <p>TCP window protocols</p> <p>Protocols</p> <p>Sliding window</p> <p>Answer: A</p>	L1	CLO2
12	<p>The chief advantage of XDR is that it automates much of the data conversion task, programmers do not need to type _____ manually.</p> <p>XDR system calls</p> <p>XDR calls</p> <p>XDR procedure calls</p> <p>XDR proc calls</p> <p>Answer: C</p>	L1	CLO2
13	<p>The system call that makes the design possible is called select, and it applies to I/O in general, not just to communication over sockets: Select has the form:</p> <p>mready = select(ndesc, indesc, outdesc, excdesc, timeout)</p> <p>ready = select(ndesc, indesc, outdesc, excdesc, timeout)</p> <p>aready = select(ndesc, indesc, outdesc, excdesc, timeout)</p> <p>nready = select(ndesc, indesc, outdesc, excdesc, timeout)</p> <p>Answer: D</p>	L1	CLO2
14	<p>Argument name gives the address of an array of bytes where the name is to be stored, and argument length is an integer that specifies the length of the name</p> <p>Array</p> <p>Socket</p> <p>Identifier</p>	L1	CLO2

	<p>Access Specifier</p> <p>Answer: A</p>		
15	<p>The _____ provides four library functions that convert between the local machine byte order and the network standard byte order.</p> <p>socket</p> <p>socket TCP/IP</p> <p>socket FTP</p> <p>socket API</p> <p>Answer: D</p>	L1	CLO2
16	<p>Procedure getprotobynumber allows a process to search for protocol information using the protocol number as a key:</p> <p>ptr = gtprotonumber(number)</p> <p>ptr = getprobynumber(number)</p> <p>ptr = getprotobynumber(number)</p> <p>ptr = getprotobynum(number)</p> <p>Answer: C</p>	L1	CLO2
17	<p>To use _____, a program must create a socket, bind addresses to it, accept incoming connections, and then communicate using the read or write primitives.</p> <p>TCP</p> <p>FTP</p> <p>UDP</p> <p>IP</p> <p>Answer: A</p>	L1	CLO2
18	<p>_____ pass control to the computer's operating system, while library routines are like other procedures that the programmer binds into a program.</p> <p>Array</p> <p>Socket</p> <p>Identifier</p> <p>System calls</p> <p>Answer: D</p>	L1	CLO2
19	<p>The _____ provides four library functions that convert between the local machine byte order and the network standard byte order.</p> <p>sockets</p> <p>socket API</p>	L1	CLO2

	socket TCP/IP socket AP Answer: B		
20	Argument net is a _____ network IP address in host byte order, and argument local is the integer representing a local host address on that network, also in local host byte order. 16-Bit 32-bit 8-Bit 64-bit Answer: B	L2	CLO2
21	_____ reads a file that contains information like the name of the machine that runs the domain name server and stores the results in global structure res. Res-init Res Res-in Res-I Answer: A	L1	CLO2
22	Argument _____ is a pointer to a character string that contains a domain name for the host. Names Namestr Namesr Namestring Answer: B	L1	CLO2
23	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 Answer:A	L1	CLO2
24	User 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	L1	CLO2

	Answer:A		
25	<p>An endpoint of an inter-process communication flow across a computer network is called</p> <p>A.pipe</p> <p>B.socket</p> <p>C.Port</p> <p>D.machine</p> <p>Answer: B</p>	L1	CLO2
26	<p>Which one of the following is a version of UDP with congestion control?</p> <p>datagram congestion control protocol</p> <p>stream control transmission protocol</p> <p>structured stream transport</p> <p>user congestion control protocol</p> <p>Answer: A</p>	L2	CLO2
27	<p>Which methods are commonly used in Server Socket class?</p> <p>a)Public Output Stream get Output Stream ()</p> <p>b)Public Socket accept ()</p> <p>c)Public synchronized void close ()</p> <p>d)Public void connect ()</p> <p>Answer:</p> <p>b. (Public Socket accept ())</p>	L2	CLO2
28	<p>Which constructor of Datagram Socket class is used to create a datagram socket and binds it with the given Port Number?</p> <p>a) Datagram Socket(int port)</p> <p>b) Datagram Socket(int port, Int Address address)</p> <p>c) Datagram Socket()</p> <p>d) Datagram Socket(int address)</p> <p>Answer:</p> <p>b. (Datagram Socket(int port, Int Address address))</p>	L2	CLO2
29	<p>The client in socket programming must know which information?</p> <p>a) IP address of Server</p> <p>b) Port number</p> <p>c) Both IP address of Server & Port number</p> <p>d) Only its own IP address</p> <p>Answer:C</p> <p>c. (Both IP address of Server & Port number)</p>	L2	CLO2
30	<p>What does the java.net.InetAddress class represent?</p> <p>a) Socket</p> <p>b) IP Address</p> <p>c) Protocol</p> <p>d) MAC Address</p>	L1	CLO2

	Answer: b. (IP Address)		
31	Which classes are used for connection-less socket programming? a) Datagram Socket b) Datagram Packet c) Both Datagram Socket & Datagram Packet d) Server Socket Answer: b. (Both Datagram Socket & Datagram Packet)	L1	CLO2
32	What happens if ServerSocket is not able to listen on the specified port? a) The system exits gracefully with appropriate message b) The system will wait till port is free c) IOException is thrown when opening the socket d) PortOccupiedException is thrown Answer: c. (IOException is thrown when opening the socket)	L2	CLO2
33	What does bind() method of ServerSocket offer? a) binds the serversocket to a specific address (IP Address and port) b) binds the server and client browser c) binds the server socket to the JVM d) binds the port to the JVM Answer: a. (binds the serversocket to a specific address (IP Address and port))	L2	CLO2
34	What does local IP address start with? a) 10.X.X.X b) 172.X.X.X c) 192.168.X.X d) 10.X.X.X, 172.X.X.X, or 192.168.X.X Answer: d. (10.X.X.X, 172.X.X.X, or 192.168.X.X)	L1	CLO2
35	What happens if IP Address of host cannot be determined? a) The system exit with no message b) UnknownHostException is thrown c) IOException is thrown d) Temporary IP Address is assigned Answer: b. (UnknownHostException is thrown)	L1	CLO2
36	What is the java method for ping? a) hostReachable() b) ping() c) isReachable() d) portBusy()	L1	CLO2

	Answer: c. (isReachable())		
37	Which one of the following Socket API funtions convert an unconnected active tcp socket into a passive socket a)coonect b)bind c)listen d)accept Answer: c. (listen)	L1	CLO2
38	Stream Control Transmission Protocol (SCTP) is a new a)Message oriented transport layer protocol b)connectionless oriented protocol c)connection oriented protocol d)stream oriented protocol Answer: a. (Message oriented transport layer protocol)	L1	CLO2
39	In Transmission control protocol(TCP)each connection have a) 1 Stream b) 2 Streams c) 3 Streams d) Infinite Streams Answer: b. (2 Streams)	L1	CLO2
40	How does applet and servlet communicate? a) HTTP b) HTTPS c) FTP d) HTTP Tunneling Answer: d. (HTTP Tunneling)	L1	CLO2
41	The local host and the remote host are defined using IP addresses.To define the processes we need second identifiers called a) UDP addresses	L1	CLO2

	b) Transport addresses c) Port addresses d) IP addresses Answer: c. (Port addresses)		
42	A port address in UDP is ----- bits long a) 8 b) 16 c) 32 d) 64 Answer: b. (16)	L1	CLO2
43	The Combination of an IP Address and port number is called a----- a) Transport address b) Network address c) Socket address d) IP address Answer: c. (Socket address)	L1	CLO2
44	TCP allows the sending process to deliver data as a----- of bytes and allows the receiving process to obtain data as a ----- of bytes. a) Message;Message b)Stream;Stream c) Block;Block d) Packet;Packet Answer: b. (Stream;Stream)	L2	CLO2
45	The value of the window size is determined by ----- a) the sender b) the receiver c) both sender and receiver d) intermediary	L1	CLO2

	Answer: b. (the receiver)		
46	IP is responsible for -----communication while TCP is responsible for ----- communication a) host-to-host;process to process b) process to process; host-to-host c) process to process; network-to-network d) network-to-network; process to process Answer: a. (host-to-host;process to process)	L2	CLO2
47	SCTP allows_____ service in each association a) singestream b) multistream c) doblestream d) triple stream Answer: b. (multistream)	L1	CLO2
48	TCP has-----,SCTP has----- a)Packets;Segments b)Segments;Packets c)Segments;Frames d)Frames;Segments Answer: b. (Segments;Packets)	L1	CLO2
49	A connection in SCTP is called an_____ a) negotiation b)association c)transmision d)segmentation Answer: b. (association)	L1	CLO2

50	<p>In Inet Address class, which method returns the host name of the IP Address?</p> <p>a) Public String get Hostname() b) Public String getHostAddress() c) Public static InetAddress get Localhost() d) Public getBy Name()</p> <p>Answer:</p> <p>b. (Public String get Hostname())</p>	L2	CLO2
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Part-B (4 marks)

S.NO	QUESTION	BLOO MS LEVE L	CLO
1	Explain about the Byte ordering and its functions.	L1	CLO2
2	discuss about Sockets and its types.	L2	CLO2
3	Analysis about the Remote Procedure call with neat diagram.	L1	CLO2
4	Summarize the UDP Features	L1	CLO2
5	Describe the TCP Packages	L1	CLO2
6	Comparison of UDP,TCP and SCTP.	L1	CLO2

Part-C (4 marks)

1	Analyse about SCTP features	L1	CLO2
2	List out the five components of UDP Packages	L2	CLO2
3	Discuss about the services of User Datagram Protocol	L1	CLO2
4	Explain in detail about SCTP packet format	L1	CLO2
5	Discuss about the Client and Server processing UDP	L1	CLO2
6.	Explain the connection that take place in FTP?	L1	CLO2
7.	Discuss in detail about TCP client and server package	L1	CLO2

8.	Discuss the function used in client and server program	L1	CLO2
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