Brainware University



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme - Bachelor of Science (Honours) in Advanced Networking & Cyber Security

Course Name - Computer Networks

Course Code - BNCSC201

(Semest	ter II)	
Time allotted: 1 Hrs.15 Min.	Fu	ll Marks : 60
[The figure in the margin	n indicates full marks.]	
Grou	p-A	
(Multiple Choice	To the second se	1 x 60=60
Choose the correct alternative from the following:		*
(1) Flow control is used to prevent		
a) overflow of sender buffer	b) overflow of receiver	
c) collision between sender and receiver	d) underflow of sender and receiver	
(2) Stop-and wait is a technique		
a) Line discipline	b) Flow control	
c) Error control	d) Session management	
(3) What is the main disadvantage of stop-and-wait	flow control?	
a) Unreliable	b) Inefficient	
c) Attenuation	d) Dropped packets	
(4) The 4 byte IP address consists of		•
a) network address	b) host address	
c) both network address & host address	d) neither network address nor host	address
(5) Which one of the following routing algorithms of	can be used for network layer design?	
a) shortest path algorithm	b) distance vector routing	
c) link state routing	d) all of the mentioned	
(6) In classless addressing, there are no classes but	addresses are still granted in:	
a) IPs	b) Blocks	
c) Codes	d) Sizes	
(7) In Unicast Routing, Dijkstra algorithm creates a	shortest path tree from a	
a) Graph	b) Tree	
c) Network	d) Link	
(8) LSP stands for		

a) Link Stable Packet

b) Link State Packet

D. david	d) Link State Path	Brainware Universit
c) Link State Protocol	-,	Baracat, Kolkata -7001.
(9) IPv6 addressed have a size of	b) 64 bits	
a) 32 bits	d) 256 bits	
c) 128 bits	•	and the standards
(10) What is the maximum number of IP addresses the net that uses the 255.255.255.224 subnet mask?	at can be assigned to nosts	on a local sub
a) 14	b) 15	
c) 16	d) 30	
(11) Open Shortest Path First (OSPF) is also called as		
a) Link state protocol	b) Error-correction prote	ocol
c) Routing information protocol	d) Distance Vector proto	ocol
(12) In OSPF header, which field is used to detect error	ors in the packet?	
a) Type	b) Area ID	
c) Authentication type	d) Checksum	
(13) Identify the IP address in the class B-		
a) 125.123.123.2	b) 191.23.21.54	
c) 192.128.32.56	d) 10.14.12.34	
(14) Network congestion occurs		
a) in case of traffic overloading	b) when a system termin	ates
c) when connection between two nodes terminate	d) none of the mentioned	
(15) Connection establishment in TCP is done by which	ch mechanism?	
a) Flow control	b) Three-Way Handshak	ing
c) Forwarding	d) Synchronisation	
(16) Which layer provides the services to the user?		
a) Physical layer	b) Data link layer	
c) Network layer	d) Application layer	
(17) In layer hierarchy as the data packet moves down s, headers are	wards from the upper to the	e lower layer
a) Added	b) Removed	
c) Rearranged	d) Modified	
(18) Which of these is not a network edge device?		
a) PC	b) Smartphones	
c) Servers	d) Switch	
(19) In computer network nodes are		
a) the computer that originates the data	b) the computer that rou	ites the data
c) the computer that terminates the data	d) all of the mentioned	ites the data
ng information included in the packet.	between networks by proce	essing the routi
a) Bridge	b) Firewall	
c) Router	d) Repeater	
(21) Which one of the following extends a private network	Work across mubling	10
a) local area network		
c) enterprise private network	b) virtual private netword	
(22) The functionalities of presentation layer includes	d) storage area network	

(37) Which of the following tasks is not done by date	
a) framing	b) error control
c) flow control	d) channel coding
(38) When two or more bits in a data unit has been of scalled	changed during the transmission, the error i
a) random error	b) burst error
c) inverted error	d) no error
(39) CRC means	
a) cyclic redundancy check	b) cyclic response check
c) code redundancy check	d) cyclic repeat check
(40) Which method can detect all single-bit error	
a) CRC	b) VRC
c) LRC	d) All of these
(41) The receiver of the data controls the amount of erred as	data that are to be sent by the sender is ref
a) Flow control	b) Error control
c) Congestion control	d) Error detection
(42) Which of the following is an error detection me	ethod?
a) Multiplexing	b) Checksum
c) Reciprocity	d) Conditioning
(43) The receiver's window in a sliding window pro	otocol expands when
a) An ACK is received	b) An ACK is sent
c) A frame is sent	d) A frame is received
(44) Sliding window is atechnique	,
a) Line discipline	b) Error control
c) Flow control	d) Session management
(45) In a stop-and-wait method of flow control, afte frame can be sent	r the receiver receives a data frame,
a) An ACK	b) An NAK
c) An EOT	d) (a) or (b)
(46) Token Bus is physically configured like	-, (, 51 (6)
a) Ethernet	b) Token Ring
c) FDDI	d) All of the above
(47) Ethernet, Token Ring and token Bus are all diff	ferent types of
a) LANs	
c) WANs	b) MANs
(48) ICMP is primarily used for	d) d. VANs
a) error and diagnostic functions	b) physical addressing
c) IP addressing	4)
(49) The TTL field has value 10. How many routers a) 11	s (max) can process this datagram?
	b) 5
c) 10	1) 4
(50) The time taken by a packet to travel from cliena) STT	t to server and d
	to server and then back to the client is
c) PTT	b) RTT
• H	d) JTT

(51) If an Ethernet port on a router were assigne	d an IP address of 172.16.112.1/25, what wou	1
d be the valid subnet address of this host?		
a) 172.16.112.0	b) 172.16.0.0	h
c) 172.16.96.0	d) 172.16.255.0	2
(52) Datagram switching is done at which layer	of the OSI model?	,
a) Network layer	b) Physical layer	
c) Application layer	d) Transport layer	
(53) Datagram networks mainly refers to		
a) Connection oriented networks	b) Connection less networks	
c) Telephone networks	d) Internetwork	
(54) Identify the IP address in the class A-		
a) 125.123.123.2	b) 191.23.21.54	
c) 192.128.32.56	d) 128.14.12.34	
(55) Routers function in which layer(s)?		
a) physical	b) data link	
c) network	d) all of these	
(56) Default mask for class C is		
a) 255.0.0.0	b) 255.255.0.0	
c) 255.255.255.0	d) 255.255.255	
(57) Which of the following is NOT an IPv6	address?	
a) anycast	b) multicast	
c) broadcast	d) unicast	
(58) Which of the following is an interior rou	iting protocol?	
a) RIP	b) OSPF	
c) BGP	d) both a and b	
(59) What is the hostid of the IP address 114	.34.2.8	
a) 114.34	b) 114.34.2	
c) 2.8	d) 34.2.8	
(60) What part of 192.168.10.51 is the Netw	ork ID, assuming a default subnet mask?	
,	b) 192.168.10	
a) 192	d) 51	
c) 0.0.0.5	· out of	