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## BRAINWARE UNIVERSITY

## Term End Examination 2021 - 22 Programme – Master of Computer Applications Course Name – Data Communication & Computer Networks Course Code - MCA301 (Semester III)

Time: 1 Hr.15 Min.

Full Marks: 60

[The figure in the margin indicates full marks.]

## Group-A (Multiple Choice Type Question) 1 x 60=60 Choose the correct alternative from the following: (1) A multistation access unit is most often used in \_\_\_\_\_ LAN An Ethernet b) b. A Token Ring c) c. An FDDI d) d. (a) and (b) (2) A bridge has access to which address of a station on the same network? a) a. physical b) b. network c) c. service access point d) d. all of the above (3) Routers function in which layer(s)? a) a. Physical b) b. data link c) c. network d) d. all of these (4) The network layer concerns with a) a. bits b) b. frames c) c. packets d) d. None of these (5) In virtual circuit network each packet contains a) a. full source and destination address b) b. a short VC number c) c. only source address d) d. only destination address (6) The 4 byte IP address consists of a) a. network address b) b. host address c) c. both network address & host address d) d. None of these (7) Which one of the following routing algorithm can be used for network layer design? a) a. shortest path algorithm b) b. distance vector routing c) c. link state routing d) d. All of these

lamithm is not use	d for congestion control?				
(8) Which one of the following algorithm is not use	b) b. admission control				
a) a traffic aware routing	4) A None of these				
c) c. load shedding  (9) A subset of a network that includes all the route	ers but contains no loops is called				
(9) A subset of a network that includes all the route	b) b. spider structure				
a) a. spanning tree	d) d. None of these				
c) c. spider tree					
(10) Multidestination routing	b) b. contains the list of all destinations				
a) a. is same as broadcast routing	d) d. None of these				
c) c. data is not sent by packets	d) d. Trens				
(11) ICMP is primarily used for	b) b. addressing				
a) a. error and diagnostic functions	d) d. None of these				
c) c.forwarding					
(12) Which one of the following is not a function of	b) b.inter-networking				
a) a.routing	d) d. None of these				
c) c. congestion control	d) d. None of the				
(13) .RIP stands for	b) b. Routing Internet Protocol				
a) a. Reduced Information Protocol	d) d. Reduced Internet Protocol				
c) c. Routing Information Protocol					
(14) Packets will be transferred in how many type	S?				
a) a. 5 types	b) b. 4 types d) d. 2 types				
c) c. 3 types	a) a. 2 types				
(15) ICMP stands for	b) b. Internet Control Message Protocol				
<ul> <li>a) a. Internet Coordinate Message Protocol</li> </ul>	d) d. Interconnect Coordinate Message Protoco				
c. Interconnect Control Message Protocol	d) d. Interconnect				
(16) The network layer issues request to which la	b) b. Data layer				
a) a. Transport layer	d) d. Session layer				
c) c. Application layer	d) d. Session my				
(17) Network layer protocol exits in	and to Make				
a) a. Host	b) b. Switches				
c) c. Packets	d) d. Bridges				
(18) The network layer is considered as the	of the network layer.				
	b) b. packets				
a) a. backbone	d) d. bits				
c) c. bytes (19) Which level is the network layer in the OS	I model?				
	b) b. Fourth level				
a) a. Third level	d) d. Fifth layer				
c) c. Second level					
(20) The network layer provides	delivery.				
a) a. host-to-host	b) b. port-to-port				
c) c process-to-process	d) d. hop-to-hop				
(21) IP address can be used to specify a broad	cast and map to hardware broadcast if availabl				
e. By conversion broadcast address has he	osted with bits				

a) a.	all O	b) b.	all 1	
c) c.	alternate 0 and 1	45.4	alternate L and O	
	station in a network forward incoming packet sue. What routing algorithm is being used?	s by pla	cing them on its shortest output	
a) a.	not Potato routing	h\ h	Flooding	
c) c.	Static routing	b) b.	Flooding	
(23) Idea	ntify the class of IP address 199.1.2.3.	d) d.	Delta routing	
u) a.	Α	Manager W.	the state of the s	
c) c.	C	b) b.	В	
(24) Clas	has the greatest and	d) d.	D	
a) a.	has the greatest number of hosts	per give	n network address.	
c) c.	C	b) b.	В	
(25) In	routing the Land	d) d.	D	
a) a.	routing, the destination address is a Next-hop	networ	k address in the routing table.	
c) c.	Host-specific	b) b.	Network-specific	
	it is the beautiful and	d) d.	Default	
a) a.	at is the hostid of the IP address 114.34.2.8			
c) c.	114.34	b) b.	114.34.2	
	2.8	d) d.	34.2.8	
(27) Wha	t part of 192.168.10.51 is the Network ID, a	ssuming	a default subnet mask?	
	brota o a voyal	b) b.	192.168.10	
c) c.	0.0.0.5	4) 4	51	
(28) How	many bits of internet address is assigned to	each ho	est on a TCD/ID intermet which	
	ed in all communications with the host?	cacii iio	st on a TCF/IF internet which	
a) a.	16 - bits	b) b.	32 - bits	
c) c.	48 - bits	d) d.	64 - bits	
(29) The	layer ensures end-to-end reliable dat			
a) a.	Network	b) b.	Physical	
c) c.	Data link		Transport	
(30) The _	layer lies between the network layer	and the	nansport	
a) a.	Physical			
c) c.	Transport	b) b.	Data link	
(31) The		d) d.	application	
e	layer is responsible for source-to-des	stination	delivery of the entire messag	
a) a.	Physical			
c) c.	Transport	b) b.	Data link	
(32) A		d) d.	Network	
	address identifies a process running o	n a com	puter	
a) a.	Logical	b) b.	Physical	
c) c.	Network	d) d.	Service-point	
(33) Segme	entation and reassembly are functions of the	•	_ layer	
a) a.	Physical	b) b.		
c) c.	Transport	4/ 1	Data link	
(34) In a co	nnection-oriented exchange the first phase		Network	
ers of the source and destination between the transport lay				

-1-	O	b) b.	Exchange of data packets	
a) a.	Connection establishment	d) d.	None of the above	
c) c.	Connection termination onnection-oriented exchange the last phase	after all	the data packets are transferre	
d is	onnection-oriented exchange the last purious			
a) a.	Connection establishment	b) b.	Flow control	
0.0	Connection termination	<ul><li>d) d.</li></ul>	None of the above	
(36) The a	assignment of sequence numbers to packets	of mess	age is a function of the	
layer				
a) a.	Physical	b) b.	Data link	
c) c.	Transport	d) d.	network	
(37) The r	reassembly of packets into the original mes	sage is a	function of thelayer	
a) a.	Physical	b) b.	Data link	
c) c.	Transport	d) d.	Network	
(38) The	division of a message into packets is a func	tion of t	he layer	
a) a.	Physical	b) b.	Data link	
c) c.	Transport	d) d.	Network	
(39) Whi	ch is not a application layer protocol?			
a) a. H		b) b.	SMTP	
c) c. F		d) d. TCP		
(40) The	packet of information at the application la	yer is ca	lled	
a) a.Pa		b) b. Message		
c) c. Segment		d) d.Frame		
,	ch one of the following is an architecture p	paradign	ns?	
	Peer to peer		Client-server	
c) c. I		,	Both Peer-to-Peer & Client-Server	
•	olication developer has permission to decid	le the fo	llowing on transport layer side	
	Fransport layer protocol			
	Both Transport layer protocol and Maxim			
um	buffer size		. None of these	
(43) The	default connection type used by HTTP is			
	Persistent		o. Non-persistent	
	Can be either persistent or non-persistent or ending on connection request	d d)	d. None of these	
	e time taken by a packet to travel from clic ed	ent to se	rver and then back to the client is	
a) a.		b)	RTT	
c) c.			d. JTT	
•	the process of fetching a web page from			
(43) . III	RTTs.	u sei vei	ine III II requeents	
a) a.	2	b)	b. 1	
c) c.	4	d)	d. 3	
(46) Th	e values GET, POST, HEAD etc are spec	ified in	of HTTP message	
	Request line		b.Header line	

c) c.si	atus line		Calley body
(47) Which	ch DNS client maps an address to a name of	d) d. l or a name	Entity body e to an address especially when
a) a.	Resolver		
c) c.	Primary Server	b) b.	Mapper
(48) Whic	ch of the follow:	d) d.	Secondary Server
a) a.	ch of the following transport layer protoco	ls is used	to support electronic mail?
c) c.	ТСР	b) b.	IP
		d) d.	UDP
a) a	translates internet domain and host n	ames to	IP address.
c) c.	- System	b) b.	routing information protocol
	network time protocol	,	
r site	ch one of the following allows a user at one and then pass keystrokes from local best	e site to	
a) a.	and then pass keystrokes from local host	to remote	e nost?
c) c.	telnet	b) b.	FTP
(51) Whic	ch one of the follow:	d) d.	none of the mentioned
a) a.	ch one of the following protocols delivers/s	stores ma	il to the receiver server?
c) c.	" WHISTCI DEDICACI	b) b.	post office protocol
	internet mail access protocol	d) d.	hypertext transfer protocol
a) a.	ch is not an application layer protocol		
c) c.	пПР	b) b.	SMTP
	FTP	d) d.	TCP
(33) Appl	ication layer offers service:		
a) a.	End to end	b) b.	Process to process
c) a.	Both of the mentioned	d) c	None of the mentioned
(54) To de	eliver a message to the correct application ess must be consulted	program	running on a host, the
a) a.	IP	<b>L</b> \ <b>L</b>	MAG
c) c.	PORT		MAC
(55) FTP	uses parallel TCP connections to tra	d) d.	None of the mentioned
a) a.	1		
c) c.	3	b) b.	2
(56) SMT	P uses the TCP port	d) d.	4
a) a.	22	1	
c) c.	24	b) b.	23
		d) d.	25
	valls are often configured to block		
a) a.	UDP traffic	b) b.	TCP traffic
c) c.	Both of the mentioned	d) d.	None of the mentioned
	yptography, what is a cipher?		
a) a. nd d	algorithm for performing encryption a ecryption	<sup>b)</sup> b.	encrypted message
c) c.	both (a) and (b)	d) d.	none of these
(59) In as	ymmetric key cryptography, the private key		by
a) a.	sender	b) b.	receiver
		-) 0.	TOCCIVE

c) c. sender and receiver

d) d. all the connected devices to the networ

k

(60) Which one of the following algorithms is not used in asymmetric-key cryptography?

a) a. RSA algorithm

b) b. diffie-hellman algorithm

c) c. electronic code book algorithm

d) d. none of these