		9					4	and more area jum randi					
1		2	3	4	5	6	7	8 9 10					
-		J.,											
		Which routing algorithm suffers from count to infinity problem.											
	Α.	Distance vector											
	B.	Link state											
	C.	DHCP											
2.	D.	D. None  dedicates network resources, whereas share network resources.											
••	Α.	dedicates network resources, whereas											
	B.		187		switching								
	C.	Frame I	Relay, A	TM									
	D.	ATM, I	Frame Re	elay									
	E.	None											
3.	In_	ntransmission signals are transmitted in both directions simultaneously.											
	A.	half duplex											
	B.	multipoint											
	C.	full duplex											
	D.	simplex											
	E.	None											
١.	Pin	Ping sends:											
	A.												
	B.												
	C.												
	D.	RIP m	nessages	3				n					
	E.	None											
5.	Network operators can manage a network through												
,.		~ n m											
		· TETT CONTE											
	-	NETCONF											
	C.	CLI											
	D.	A+B-	+C										
	E.	None	:										

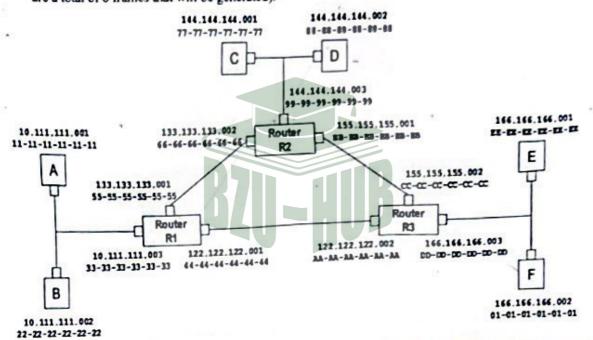
6.	Whe	en a router input or output queue is full, the packet to be dropped is:
	۸.	The new incoming packet.
	B.	The first packet in queue
	C.	The last packet in queue
	D.	Based on the queue management algorithm
	E.	None
7.		IP address of the datagram is 11001000.11001000,11001000.11001000. Which of the following
	rout	er link interface prefixes would best match the IP address of the datagram?
	Α.	11001000.11001000.1100100
	В.	11001000.11001000.110010
¥	C.	11001000.11001000.11001
	D.	They all are the same
	E.	None
8.		e purpose of Network Address Translation (NAT) is to conceal private network information
	the	rest of the Internet. A NAT device achieves this purpose by:
	A.	Changing the source IP address in all outgoing packets
	B.	Changing the destination IP address in all outgoing packets
	C.	Changing the source IP address and port in all outgoing packets
	D.	Changing the destination IP address and port in all outgoing packets
	E.	None
9.	os	PF is a routing protocol, while RIP is a routing protocol.
	A.	DV, LS
	B.	LS, DV
	C.	Hybrid, LS
	D.	LS, hybrid
		None
	E.	e BGP protocol is an example of:
10.	1 ne	
	A.	Inter- AS routing protocol used between Autonomous Systems
	B.	Intra- AS routing protocol used between Autonomous Systems
	C.	Inter- AS routing protocol used within Autonomous Systems
	D.	Intra- AS routing protocol used within Autonomous Systems
	E.	None

point each).

-	2	3	ions with 7	5	6	7	8	9	10
		-			_	_		+	+-
-15	-	1:-			_				
1	12	13	14	15				7	
	1								1
In d	atacenter r	networks,	there are r	edundant	paths (	).			
Wit	h Aloha, w	vhen a no	de has a pa	acket to se	end, before	re sending	g it must	listen to the	he media to
som	eone else	is sending	g. <b>(</b> ).	JAU					
			better perfe				tted Aloh	ia ( ).	
			ion for IP				).		
			CP discove						
			no action						
LSa	approach n	odes excl	hange topo	ology info	rmation	only with	their ne	ighbors (	).
			k, each co						
The	ingress po	ort refers	to the inpu	ut port at	the pack	et switch	on which	h a packe	t is receive
Cent	tralized ro	outing alg	gorithm co	mputes t	he least-	cost path	n betwee	n a sour	ce and des
com	plete, glob	bal know	ledge abou	ut the net	work (	).			
In ro	outing algo	orithms, i	it is recon	nmended	to rely o	n the ins	stantaneo	ous level	of congest
	oath ( )	•							
the p			collisions	. a node	selects a	random	number	between	n 0 and 3 b
the p	SMA/CD	, after 3	collisions	, a node	selects a	random	number	betweer	n 0 and 3 b
the p In C to re	SMA/CD transmit (	, after 3							
In C to re Pack	SMA/CD transmit ( et forwar	, after 3 ). ding by	SDN-con	trolled sy	witches	can be b			n 0 and 3 b
In C to re	SMA/CD transmit ( et forwar	, after 3 ). ding by		trolled sy	witches	can be b			
In C to re Pack only	SMA/CD transmit ( et forwar the transp	, after 3 ). ding by port-laye	SDN-con	trolled sy	witches	can be b			
In C to re Pack only CRC	sma/cd transmit ( et forwar the transp can dete	, after 3 ). ding by a port-layed	SDN-con	trolled so network-l	witches ayer (	can be b	ased on	any num	

## Question#7: (15 points)

a. (8 points) Consider the following network where host D wants to send a TCP segment to host F. The TCP segment sent by host D will pass through R2, then R1, then R3 before reaching host F. Assume that all ARP tables are complete except for router R1 (i.e., router R1 ARP table is empty). Complete the following table related to the TCP segment sent from D to F (the first row is already filled). Note that the possible frame types are ARP Query, ARP Response, and data. Note also that the source and destination IP addresses refer to the IP addresses contained in the payload of each frame. (Hint: There are a total of 6 frames that will be generated).



				PRINCIPLE PRINCIP	
Frame	Frame	Source MAC	Destination MAC	Source IP	Destination IP
Tiame	Type		99-99-99-99-99	144.144.144.002	166.166.166.002
1	data	88-88-88-88-88	99-99-99-99		147
2	data				
3	ARP Query				
4		1			
5		1			
6		w			

## bzu-hub.com