			E EXAMINA st to 7th Semes	TION, MAY 2019 ter			
		15CS336E - NETV (For the candidates admitted dur		ING ALGORITHMS c year 2015 - 2016 to 20			
 Note: (i) Part - A should be answered in OMR sheet within first 45 minutes and OMR sheet should over to hall invigilator at the end of 45th minute. (ii) Part - B and Part - C should be answered in answer booklet. 							
Time:	Three :	Hours			Max. Marks: 10		
			- A (20 × 1 = 2 wer ALL Que	•			
. 1	Tha	maximum size of a packet in	the Ethernet is				
; 1		1800 bytes		1500 bytes			
	(C)	. • · · · · · · · · · · · · · · · · · ·	` '	1600 bytes			
2	The	finite amount of space mainta	ined by the ro	uter is known as	•		
2		Cache		Packet			
	, ,	Buffer	` ,	Memory			
3	The	unreliable transport layer pro	tocol is	,			
_		UDP	(B)	SMTP			
	(C)	TCP	(D)	POP3	•.		
4	. The	alternate form of addressing f	followed by the	e transport layer is			
		Socket number		Port number			
	(C)	IP address	(D)	Net id			
5	. Net	id is also known as					
	(A)	Prefix	(/	Subnet id			
	(C)	Mask	(D)	IP address			
.6	. The	key of the forwarding table is					
	` '	Destination address	(B)	Source address			
	(C)	Next hop address	(D)	IP address	• .		
7		router provides connectivit			er of end systems.		
		Edge router		Core router			
	(C)	Enterprise router	(D)	Access router			
8	. The						
		Linear search	_	Binary search			
	(C)	Depth first search	(D)	Breadth first search			
9	. In _	In routing, the mask and the destination address an both 0.0.0.0 is routing table.					
-	(A)	Next hop	` '	Host specific			
-	(C)	Network specific	(D)	Default			

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10.	The internet is an example of (A) All switched network (C) Packet switched network	(B) Circuit switched network(D) Message switched network	22. Categorize the various standard committees in detail.
11.	Among the several paths, which path is sel	ected for routing?	23. Illustrate on network topology.
	(A) Widest path(C) Frequent path	(B) Shortest path(D) Maximum bandwidth path	24. Identify the various types of router.
12	Dijkstras algorithm is also called	(C)	25. Brief about the Bellman ford centralized algorithm.
12.	(A) Best path routing algorithm(C) Shortest path algorithm	(B) Best cost algorithm(D) Least cost algorithm	26. Classify the various router of OSPF network.
	(5) Shortost paul tagoriami	(D) Doubt cost algorithm	27. Write notes on MANET'S.
13.	The enhanced interior gateway routing pro	tocol (EIGRP) is categorized as a .	
	(A) Distance vector routing protocols	(B) Link state routing protocols	$PART - C (5 \times 12 = 60 Marks)$
	(C) Hybrid routing protocols	(D) Automatic state routing protocols	Answer ALL Questions
14.	was originally developed to provinformation between autonomous systems	vide a loop free method of exchanging routing	28. a. Derive an IP protocol stack architecture with neat sketch.
	(A) OSPF	(B) EIGRP	(OR)
	(C) BGP	(D) RIP	b. Explain about
	·		(i) TCP packet format
15.	possible destinations.	nain has a table that defines a path tree to	(ii) UDP packet format
	(A) Average	(B) Longest	29. a. Construct and explain the shared CPU architecture in detail.
	(C) Shortest	(D) Very longest	
16	In OSPF a link in a network is conn	ected to only one router	(OR)
10.	(A) Point to point	(B) Transient	b. Identify the elements of a router in detail.
	(C) Stub	(D) Multipoint	30. a. Brief about 'Dijkstra's shortest path algorithm for centralized approach' in detail.
17	An odlas windon set a deside a set a set		
1 /.	An adhoc wireless network consists a set o		(OR)
	(A) Nodes	(B) Routers	b. Write short notes on the following
	(C) Bridges	(D) Subnet	(i) Dijkstra based approach
18.	A one to all communication between one	source and all host on a network is classified as a	(ii) Bellman ford based approach
	A STATE OF THE STA	board and an most on a motivoir is diassified as a	31. a. Discuss about communication and message format of RIPV1.
	(A) Unicast	(B) Multicast	51. a. Discuss about communication and message format of Kit V1.
	(C) Broad cast	(D) Point-to-point	(OR)
			b. Enumerate on OSPF packet types in detail.
19.	Which of the following is not the category	of dynamic routing algorithm?	or indirection of object types in dount.
	(A) Distance vector protocols	(B) Link state protocols	32. a. Analyze temporarily ordered routing algorithm in detail with example.
	(C) Hybrid protocols	(D) Automatic start protocols	22. d. Talary 20 temporary ordered routing digorithm in dottin with example.
20	doolo with the in-		(OR)
20.			b. Explain about destination sequenced distance vector routing in detail.
	(A) Forwarding	(B) Routing (D) None directing	
	(C) Directing	(D) None directing	* * * * *
	$PART - B (5 \times $	4 = 20 Marks	
	Answer ANY F		
21	Elaborata on ID addressing 1 4 13		
∠ł.	Elaborate on IP addressing in detail.		

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