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	B.Tech. DEGREE EXAMINATION, MAY 2018  1st to 6th Semester																		
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<b>3.</b> 7 .				andidates ad											irds)				
Note: (i)				be answered					first	45 n	ninute	es an	d Ol	MR s	heet	shoul	ld be	hande	d
(ii)			_	ilator at the enter the could be the could b					bool	klet.									
		hana 1	Tormo	`~ <sub>.</sub>											λ.	<b>f</b> ore 1	N daule	100	<u> </u>
Time: Three Hours  Max. Marks: 10											S: 100	J							
	$PART - A (20 \times 1 = 20 Marks)$ Answer ALL Questions																		
Reliable transport layer protocol are known as																			
	1,		UDP	nt layer pro	.0001 0	ac Ki	IIO VVI	(B)	TO	C <b>P</b>									
		(C)	IP					(D)	Sì	MI									
	2.	The	three differ	ent planes ir	netw	ork r	nana	geme	ent a	archi	itectu	ire a	re						
			_	ent, control,	_			٠,			r, cor		-	_					
		(C)	High level	, control, da	ta plar	ne		(D)	M	anag	geme	nt, s	eque	entia	i, da	ta pla	ane		
	3.	. The packet forwarding performs which function to determine the appropriate outgoing link											link						
		` '	Sequential				-	` '			te fu								
		(C)	Lookup fu	nction				(D)	Pa	ıranı	el fun	iciio	n						
	4.			ize of the pa	acket t	o be	trans					vork	is						
		` '	500 bytes 1500 bytes					` /			ytes ytes								
		(C)	1500 bytes	1				(D)	20	00 1	yies								
	5.		_	algorithm is	mana	ged l	by		_										
			Traffic ma Buffer man					(B) (D)	_		man man	_							
		(C)	Duffer ma	lagei				(D)	10	ugei	Шап	agei	L						
	6.		_	the table ma		ned b	y the		_										
			Packet for Data contr	warding pro	cess						conti ontro	_							
		(C)	Data Collii	or process				(D)	LI	iik C	OHHC	n pr	oces	5					
	7.		e objective to reduce the search time and reduce the memory space is																
				update ope	ration						ope		n						
		(C)	Path comp	CSSIOII				ע)	гa	ull lf	ackir	īЯ							
-	8.		An attempt to allow more efficient use of IP address space and slow down the exponential growth of forwarding tables in router is																
				ruing tables			2	(B)	C1	assfi	ul int	erdo	mai	n roi	utino	,			
			Classfull r			0		• •			omaii				<u></u>	,			

Page 1 of 3 15MA1-6/15CS336E

10. The caching refers to storing of a candidate path list at a node ahead of time is  (A) Data caching (B) Router caching (C) Path caching (D) Packet caching  11. The two communication modes for exchanging routing information are (A) In-band and out-of-band (B) In-band and data-band (C) Packet-band and out-of-band (D) In-band and text-band  12. The protocol which is based on a distance vector protocol for computing shortest pat (A) RIP (B) OSPF (C) RTNR (D) MPLS  13. The size of the address family identifier in RIPv1 packet format is (A) 4 byte (B) 3 byte (C) 2 byte (D) 1 byte  14. The protocol developed to overcome the hop count limit and hop count metric of RIF (A) RIP (B) LSR	
(A) In-band and out-of-band (C) Packet-band and out-of-band (D) In-band and data-band (C) Packet-band and out-of-band (D) In-band and text-band  12. The protocol which is based on a distance vector protocol for computing shortest path (A) RIP (B) OSPF (C) RTNR (D) MPLS  13. The size of the address family identifier in RIPv1 packet format is (A) 4 byte (B) 3 byte (C) 2 byte (D) 1 byte	
(A) RIP (C) RTNR (B) OSPF (D) MPLS  13. The size of the address family identifier in RIPv1 packet format is (A) 4 byte (B) 3 byte (C) 2 byte (D) 1 byte	
(A) 4 byte (C) 2 byte  (B) 3 byte (D) 1 byte  14. The protocol developed to overcome the hop count limit and hop count metric of RIF	ı is
· · · · · · · · · · · · · · · · · · ·	
(C) MST (D) IGRP	v1 is
15. The routers that sit on the border between the backbone and the low-level area (A) Area-border router (B) Internal router (C) Backbone router (D) Boundary router	
<ul> <li>16. The network refers to connecting a pair of routers directly by interface/ link such as (A) Broadcast network</li> <li>(B) Point-to-point network</li> <li>(C) Point-to-multipoint network</li> <li>(D) Non-broadcast network</li> </ul>	)C-3 is
17. In AODV, the packet broadcasts from the source node to its neighbour is  (A) RPAC (B) ARPAC (C) RREQ (D) RREP	
18. DSDV uses two types of packets to share its routing table content  (A) Full dump and incremental packet  (C) Full dump and MSG pack  (D) Half dump and MSG pack	
19. Highly adaptive loop-free distributed routing algorithm is  (A) TBRPF (B) TORA (C) ZRP (D) RR	
20. The MAC protocol that allow only one sensor node to access the channel at any given (A) Contention-based MAC protocol (B) Contention-free MAC protocol (C) Non-Contention protocol (D) Contentionless MAC protocol	ı time

Page 2 of 3 15MA1-6/15CS336E

## PART – B ( $5 \times 4 = 20$ Marks) Answer ANY FIVE Questions

- 21. Categorize the various communication technologies of network routing.
- 22. Classify the types of routers.
- 23. List the importance of network protocol analyzer.
- 24. Examine the various packet flow of a router.
- 25. Illustrate the shorter path communication in a network.
- 26. Compare IGRP with EIGRP.
- 27. Give a brief note on internet based MANET.

## $PART - C (5 \times 12 = 60 Marks)$ Answer ALL Questions

28. a. Derive OSI reference model with neat sketch.

(OR)

- b. Illustrate the architecture of network management and explain in detail.
- 29. a. Construct the shared forwarding engine architecture using a switched back plane and explain.

(OR)

- b. Elaborate on
  - (i) Ingress packet forwarding
  - (ii) Egress packet forwarding
- 30. a. Develop a specialized k-shortest path algorithm with an example.

(OR)

- b. Illustrate on distributed approach of Dijkstra's shortest path first algorithm.
- 31. a. Construct the packet format of Interior Gateway Routing Protocol (IGRP).

(OK)

- b.i. Categorize the various network types that belongs to OSPF.
- ii. Classify routers of OSFP.
- 32. a. Explain the dynamic source routing protocol in detail.

OR)

b. Discuss 'Adhoc on Demand Distance Vector routing' protocol in detail.

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Page 3 of 3

15MA1-6/15CS336E