			Reg. No.														
			D Took IN	r C D IV	יישו ישו	SZ A TA	TENT A	TTA	ת זמני	/TAX	7 ኃቤ1	, I		•		•	·
			B.Tech. DF			8 th S			۱۱ و ۱۷ هر	/LAL I	. 4VI	IJ					
Note:	(For		5CS336E – idates admitt										7 – 20	18)			
 (i) Part - A should be answered in OMR sheet within first 45 minutes and OMR sheet should be har over to hall invigilator at the end of 45th minute. (ii) Part - B and Part - C should be answered in answer booklet. 									han e	ded							
Time: Three Hours										· N	Лах.	Mar	ks: 1	.00			
			• P /	ART - Ans		20 × ALL)		,					
1.	The cla	ss D add	resses are us	sed for	r			r									;
	(A) B1	oadcasti	ng				(B)	Ur	nicasti	ing							
	(C) M	ulticastir	ng				(D)	Ту	pecas	sting							
2.		_	form of tran	sport l	layer	is	(T)			. ·							
-	` /	cket nur	nber		*		` '		rt nur								
	(C) IP	address					(D)	De	estina	lion	adar	ess					
3.	Nodes in the public switched telephone network are called																
	(A) Sv						(B)		unks								
	(C) Tr	unk grou	ıps		-		(D)	De	evice								
4.	The dat	a structu	res used by	the ro	uter	is kno	own a	as									
	• ,	outing ta							ieue r			•		•			
	(C) Tr	affic ma	nage				(D)	Ro	ute c	ontro	ol pr	ocess	or	-			
5.		_	s connectivi	ty of t	he ne	etwor								-		•	
	. ,	ne cards							ntrol	-	ie				÷		
	(C) M	anageme	nt plane				(D)	Ва	ick pl	ane							
6.	-		electively ic	dentify	ing	packe							s is kı	10WI	as_		
	. ,	icket que					, ,		cket o								
	(C) Pa	cket sch	eduling			-	(D)	Pa	cket f	ilter	ing	•			-		
7. In architecture, a CPU with memory and multiple line cards are conbackplane.							conne	ected	by a	sha	red						
			architecture				-				_		ecture				
	(C) Sh	nared CP	U architectu	ire			(D)	Sh	ared	forw	ardi	ng en	gine a	rchit	ectu	re	
8.	8 is a data structure that essentially serves as a scratch pad for carrying information between different stages of packet processing inside the router.								ion								
		icket cor		Packe	, hro	VC3311			cket (
	` /	rwardin					` '		outing								

9.		algorithm used for finding the best	matc]	hing prefix.
	(A)	Bell-man ford algorithm	(B)	Dijkstra's algorithm
		Naïve algorithms		Shortest path algorithm
		5	()	
10.		is the technique that refers to store a	list o	f candidate paths at a node ahead of time
		Route caching		Path caching
		Packet caching	` '	Data caching
	(-)		(2)	as www vaccing
11.		the widest path can be termed as		•
		Longest matching prefix	(B)	Maximal residual capacity path
		Best path		k-shortest path
	(0)	Dost patif	(D)	k shortest paur
12	The	algorithm that computes shortest paths	to all	destination
14,				Spanning tree algorithm
		± = =	• •	, <u> </u>
	(C)	Dijikstra's algorithm	(D)	Bellman ford algorithm
13		and leasted in once Armith commentarity	40.	othor outon one oug greatones.
13.		are located in area 0 with connectivit		
	` '	Backbone router	` ′	As boundary router
	(C)	Area border router	(D)	Internal router
4.1				
14.		used to connect an area to the backb		-
		Unicast links		Point-to-point links
	(C)	Multipoint links	(D)	Virtual links
15.			ol bas	ed on hop-by-hop communication of routing
		rmation		•
		EIGRP	` '	OSPF
	(C)	IGRP	(D)	RIP
16.	_	er nodes of border gateway protocol are		
	(A)	Autonomous systems	(B)	Stab
	(C)	Router	(D)	Backbone area
17.		V is based on algorithm.		
	(A)	Bellman ford algorithm	(B)	Navies algorithm
	(C)	Dijkstra's algorithm	(D)	K-path algorithm
		~		
18.	In _	, a route is established only when	it is	required by a source node for transmitting
	data	packets.		
	(A)	MANET	(B)	Adhoc networks
	(C)	AODV	(D)	DSDV
				•
19.		is a table driven protocol		
		SMTP	(B)	DSDV
		BGP	` ′	FTP
	ς = χ		. ,	
20.	The	nodes in a adhoc wireless network cont	ains	battery
•		Limited	-	Max
	. ,	High		Low
	(~)		(2)	2011

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

- 21. Outline the importance of communication technologies.
- 22. Classify the types of routers.
- 23. Illustrate on naive algorithms.
- 24. Give a brief note on path compression.
- 25. Write a note on k shortest paths.
- 26. Compare distance vector routing and link state routing. Give one example.
- 27. Give a brief note on dynamic source routing.

$$PART - C$$
 (5 × 12 = 60 Marks)
Answer ALL Questions

28. a. Derive protocol stack architecture with neat sketch.

(OR

- b. Explain about the various functions of router in detail.
- 29. a. Give a detail note on elements of Router with a neat sketch.

(UK)

- b. Construct the shared CPU architecture with route caches and explain.
- 30. a. Explain about the widest path routing algorithms in detail.

(OR)

- b. Enumerate on centralized approach of Dijkstra's shortest path first algorithm.
- 31. a. Compare IGRP and EIGRP with packet format.

(OR)

- b. Narrate on
 - (i) OSPF packet common header
 - (ii) OSPF hello packet
- 32. a. Elaborate on 'Adhoc on demand distance vector routing' protocol in detail.

(OR)

b. Analyze the behaviour of 'Destination sequenced distance vector' with an example.
