				MINATION, JUNE 2023 nth Semester					
				ROUTING ALGORITHMS academic year 2018-2019 to 202	?1-2022)				
Note: (i) (ii)	ove		OMR sheet v	vithin first 40 minutes and OMF		ould	l be	han	ded
Time: 3	hours				Max	. M	Iark	cs: 1	.00
		PART – A ($20 \times 1 = 20 \text{ I}$	Marks)	Mar	ks	BL	co	PO
			ALL Question	•					
1.	The	last address of IP address	-		1		1	1	1
	(A)		(B)	Network address Multicast address					
2.	нтт	TP is an example of	protocol.		1		2	1	2
		Session layer		Presentation layer					
		Data link layer	. ,	_					
3.	Subs		PSTN are co	onnected through to	end 1		2	1	2
	(A)	Regional offices	(B)	Local loops	FC				
	(C)	Repeaters	(D)	DSUs					
4.		work protocol analyzers ork.	are used to	capture packets from	1		1	1	1
	(A)	Live	(B)	Dead					
	(C)	Inactive	(D)	Failed					
5.				at is not explicitly destined to	o it. 1		1	2	1
	` /	Hub	> /	Switch					
	(C)	Router	(D)	Bridges					
6.		is responsible for priending on the desired leve		d regulating the outgoing tra	affic, 1		2	2	2
	(A)	Queue manager	(B)	Traffic manager					
	(C)	Forwarding engine	(D)	Route control processor					
7.	The	time complexity for linea	r search pref	fix matching is	1		2	2	1
		O (log N)		O (N)					
		$O(\log N^2)$		O (2log N)					
8.		protocol is for map sical address.	ping a dyna	nmic IP address to a perma	anent ¹		1	2	2
	~ -	PPP	(B)	RIP	E				
	. ,	SNMP	· /	ARP					
Dogg 1 of 2	(-)		()		07JA	5-7-1	18CS	E453	ιT

Reg. No.

9.		In distance vector routing, the routing table for each router is other routers.				1	2	3	2
	(A)	The same as	(B)	Different from					
	(C)	Either same or different from	(D)	Neither same for different fro	om				
10.	Dijk	Dijkstra algorithm is used in routing to find the shortest path tree.				1	1	3	1
			` '	PIM	*				
	(C)	Link state	(D)	DVMRP					
11.	DVN	MRP is a routing protoco	ol base	ed on RIP.		1	2	3	2
	(A)	Group based Destination based	(B)	Source based					
	(C)	Destination based	(D)	Core based					×
12.	Rou	ting between autonomous system	is re	ferred to as		1	1	3	2
	(A)	Inter domain routing	(B)	Intra domain routing					
	(C)	Hierarchical routing	(D)	Cluster routing					
13.	the r	at distance vector concept keeps next HOP neighbor for those rou	tes?		r to	1	2	4	2
	(A)	Poisoned reverse	(B)	Split horizon					
	(C)	Count to infinity	(D)	Hold down					
14.	IGM	P is protocol.				1	1	4	2
	(A)	An error reporting	(B)	A group management					
	(C)	A transmission	(D)	A transport					
15.	OSP	F is also called as				1	1	4	1
		Link state protocol		Error-correction protocol					
	(C)	Routing information protocol	(D)	Border gateway protocol					
16.	EIG	RP metric is				1	2	4	2
	(A)	Bandwidth only	(B)	Hop count					
	(C)	Delay only	(D)	K-values					
17.	Whi	Which one of the following is the on demand routing protocol?					1	5	1
	(A)	AODV	(B)	DSDV					
	(C)	WRP	(D)	CGSR					
18.	ZRP	uses a routing protocols	s.	£'		1	2	5	1
		Proactive		Reactive					
	(C)	Both proactive and reactive	(D)	Table driven					
19.	Next	generation network (NGN) is a		technology.		1	1	5	1
		Circuit		Packet					
	. ,	ATM	` /	Switch					
20.	NGN	N architecture is based on	lav	ers.		1	1	5	1
	(A)		(B)						
	(C)		(D)						
	. ,		(-)						

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

21.	Classify the types of routers with brief explanation.	4	. 4	1	1
22.	Categorize the elements of a router.	4	3	1	1
23.	Differentiate routing table and forwarding table.	4	4	2	1
24.	Compare TCP and UDP.	4	4	Í	1
25.	Demonstrate the operation of BGP.	4	3	3	1
26.	Distinguish RIPV1 and RIPV2.	4	4	4	1
27.	Interpret the operation of Wireless Routing Protocol (WRP).	4	3	5	1
	$PART - C (5 \times 12 = 60 \text{ Marks})$ Answer ALL Questions	Marks	BL	CO	PO
28. a.	Describe the protocol architecture stack of OSI reference model and generalize the functions in each layer.	12	3	1	1
	(OR)				
b .	Demonstrate the network management architecture with neat sketch.	12	3	1	1
29. a.	Analyze the architecture and functions of a router.	12	4	2	1
	(OR)				
b.	Interpret multi-bit tries algorithm with example.	12	3	2	1
30. a.	Evaluate Bell Man Ford algorithm and analyze.	12	4	3	1
	(OR)				
b.	Analyze distance vector routing protocol with neat sketch.	12	4	3	1
31. a.	Discuss IGRP packet format in detail.	12	2	4	1
b.	(OR) Classify the OSPF design for different types of network.	12	4	.4	1
32. a.	Examine any two reactive routing protocols for adhoc networks.	12	4	5	1
	(OP)				
b.i.	(OR) Determine the characteristics next generation networks.	4	4	5	1
ii.	Demonstrate NGN architecture with neat sketch.	8	3	5	1

* * * * *