27. a.	Explain SDN controlled core modules with available controller example.	10	2	2	1
b.	Write a note on (i) Nicira (ii) Vonware	10	2	2	1
28. a.	What is network function virtualization? Explain.	10	2	3	1
b.	(OR) Analyze the functionality of publish – subscribe interface with its pros and cons.	10	2	3	3
29. a.	Explain the CISCO XNIC controller with usage.	10	2	4	1
ь.	(OR) Give the use case of SDN in data center.	10	3	4	1
30. a.	Analyze various open source controllers.	10	3	5	1
b.	(OR) Analyze various simulation and testing tools for SDN.	10	3	5	3

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Reg. No.				, i m	

B.Tech. DEGREE EXAMINATION, MAY 2022

Seventh Semester

18ECE320T - SOFTWARE DEFINED NETWORKS

			(For the canadates damitted from	ine a	cademic year 2016-2019 to 2019-2020	,			
Note:	;					, II, II		1	1 1
(i)					vithin first 40 minutes and OMR shee	t shoul	d be	han	ded
			to hall invigilator at the end of 40th n						
(ii))	Part	t - B should be answered in answer bo	ooklet	L .				
Time	: 21	∕₂ Hoι	urs			Max.	Ma	rks:	75
							-		
			$PART - A (25 \times 1 =$	25 N	Marks)	Marks	BL	CO	PO
			Answer ALL Qu						
	1	377.:	ch is virtualization software?	acsiic	5115	1	1	1	1
	L,			(D)	VM middle ryone				
		` '	VM ware	, ,	VM middle ware				
		(C)	Xen	(D)	ATM				
			and the latest and the latest			1		1	3
8	2.	Sepa	aration of control emf data plane	provi	de more stability by	1	1	1	_
		(A)	Virtue of having a smaller and	(B)	Having good data base				
			less volatile code base	100					
		(C)	Having more volatile code	(D)	Having big code base				
		` '	base		to or hand and the				
	3.	Whi	ch one uses hybrid approach of c	onfig	protocol?	1	1	1	3
	٠.		LLDP		MSVP				
		(C)	Ships in night	(D)	Ships in day				
		(0)	Simps in inglic	(2)	Ships in day				
	1	D:+ +	corrent is			1	1	1	1
	4.			(D)	A protocol for packet				
		(A)	A protocol for file sharing in	(D)	1				
		(0)	P2P network	(D)	forwarding				
<		(C)	A protocol for control plane	(D)	A protocol for data plane				
	_	4 .,				1	- 1	1	3
	5.	Agil	lity of network is	(D)	The shifter of instantiate and				
		(A)		(B)	The ability of instantiate and				
			plane	(T)	diable networks				
		(C)	The ability of separating data	(D)	The ability of changing route				
			plane	. 5			1	_	
	6.	RES	STFUL			1	1	2	1
		(A)	Provide memory management	(B)	Provide facility for controller to				
		, ,			application interaction				
		(C)	Provide controlled switching	(D)	Provide controller functionality				
		()	. •	` '					
	7.	Min	net			1	1	2	1
			Is a hardware platform	(B)	Is a controller software				
		` '	Is a switch	\ /	Is a network simulator				
		(C)	is a switch	(D)	is a network simulator				
	0	РОХ	V is			1	1	2	1
	0.			(D)	A controller based on C				
			A operating system Python bases version of NOX	(D)					
Page :	l of ∉	(C)	LAMON DASES ACTION OF LACK	(D)	Java Dased Hame Work	19M	718E	CE32	TO
i age .	~ OI 4								

9.	*		1	1	2	1	2)	18.	Eliminate odd choice (A) Hardware switches provides (B) Software switches are flexible high performance (C) Software switches provides (D) Hardware switches are less time for packet processing limited in features	. 1	4	1
10.	VXLAN	74 S.A.	1	1	2	1		19.	In public cloud	1	4	1
		Is an encapsulation protocol Is a wired LAN network							group (C) Services are available to public (D) Services are available in via internet intranet only			
11	Open flow protocol		1	1	3	3			via internet intranet only			
11.		Defines communication						20.	Which is inline network function?	1	4	1
	(2)	between any two switches							(A) Routing (B) Compression			
	(C) Defines communication (D) between open flow controller	Defines rules for compression							(C) Load balance (D) Performance monitoring by			
	and open flow switch								routers			
12	Open flow switches uses		1	1	3	1		21	Cutting of connection in new release of code from old one is called 1	1	5	3
- 1,2.	(A) MAC address for packet (B)	VLAN ID for packet matching						21.				
	matching								(A) Forking (B) Parking			
	(C) Packet ID for packet matching (D)	Switch ID for packet matching							(C) Cutting (D) Disconnection			
13.	When match flow is not found, the switch	will ·	1	1	3	3		22.	is an open flow switch.	1	5	1
	(A) Reroute the packet (B)								(A) Napstor (B) VMware			
	(C) Forward the packet to (D) controller						*		(C) Indigo (D) Indiga			
	2							23.	Openstack 1	1	5	3
14.	In Open flow auxiliary connections		1	1	3	1 ***			(A) Is a open software for routing (B) Is a cloud computing platform			
	(A) Are connection between (B)					¥			(C) Is a open controller software (D) Is a open switch software			
	controllers	connection between single						24	In LTE network service gateway provides	1	5	1
	(C) Are single connection between (D)	controller and switch Are connection for routing						24.	(A) Functionality of packet (B) Functionality on control and		ĺ	
	switches								forwarding data plane			rib1
15.	JSON								(C) Functionality of security (D) Functionality of VMware			
E1	(A) Is a human readable XML (B)	Is a HTML format										
	format							25.	SDN is used in 5G for1	1	5	3
	(C) Is a java software (D)	Is a java object for simulation							(A) Network function (B) Implement high speed network virtualization			
16.	A switch listener is to		1	I	4	1			(C) Implement routing (D) Implement handoff			
	(A) Get notification when packet (B) lost	Get notification when a new switch is added							functionality			
		Get notification when a packet							$PART - B (5 \times 10 = 50 Marks)$	ks BL	со	PO
	(0)	is receives							Answer ALL Questions			
17.	The SDN application is used secure, apply	y policy and blacklist application	1	1	4	1	2	26. a.	What is a distributed control plane? Give the protocol / mechanism for it.) 2	1	3
	is								(OD)			
	(A) Kera (B) (C) Sentinel (D)	sent VMware						b.	(OR) Detail on open flow protocol.) 2	1	1
3												