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? Ex	xplain.	2	3	1
b. Analyze the functionality of publish – subscons.	scribe interface with its pros and 10	2	3	3
29. a. Explain the CISCO XNIC controller with u	isage.	2	4	1
(OR) b. 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. Analyze various simulation and testing tool	ls for SDN.	3	5	3

Reg. No.			1	

B.Tech. DEGREE EXAMINATION, MAY 2022

Seventh Semester

18ECE320T – SOFTWARE DEFINED NETWORKS candidates admitted from the academic year 2018-2019 to 2019-2020)

Note: (i) (ii)	over		neet w	within first 40 minutes and OMR sheet.		d be	han	ded
Time: 21	∕₂ Hoι	urs			Max.	Ma	rks:	75
		$PART - A (25 \times 1 =$	25 N	Marks)	Marks	BL	со	PO
		Answer ALL Qu						
1	W/hi	ch is virtualization software?	uosii		1	1	1	1
1.		VM ware	(B)	VM middle ware				
	. ,	Xen	` /					
	(C)	Acii	(D)					
2.	Sena	aration of control emf data plane	provi	de more stability by	1	1	1	3
6 <u>-</u>	(A)	Virtue of having a smaller and	(B)	Having good data base				
	()	less volatile code base	7/2					
2	(C)	Having more volatile code	(D)	Having big code base				
	` '	base		the state of the s				
3.	Whi	ch one uses hybrid approach of c	onfig	g protocol?	1	1	1	3
		LLDP		MSVP				
	(C)	Ships in night	(D)	Ships in day				
						١,		_
4.	Bit t	corrent is			1	1	1	1
	(A)	A protocol for file sharing in	(B)					
		P2P network		forwarding				
c	(C)	A protocol for control plane	(D)	A protocol for data plane				
5	A -:1	it of a stream is			1	1	1	3
5.		ity of network is	(B)	The ability of instantiate and				
	(A)	plane	(בו)	diable networks				
	(C)	The ability of separating data	(D)					
	(C)	plane	(1)	The definity of changing rouse				
х 6	RES	STFUL			1	1	2	1
0.		Provide memory management	(B)	Provide facility for controller to				
		110vide memory management	(2)	application interaction				
	(C)	Provide controlled switching	(D)	Provide controller functionality				
	(0)	Trovide controlled switching	(2)	110 (140 0011110111111111111111111111111				
7.	Min	net			1	1	2	1
, ,,		Is a hardware platform	(B)	Is a controller software				
	(C)	Is a switch	` '	Is a network simulator				
	(-)		` '					
8.	POX	K is			1	1	2	1
		A operating system	(B)	A controller based on C				
	(C)	Python bases version of NOX	(D)	Java based frame work				
Page 1 of 4					19MI	718E	CE320	T

9	. Ryu is		1	1	2	1	18.	Eliminate odd choice	1	4	1
	(A) A memory management (B)	A routing protocol						(A) Hardware switches provides (B) Software switches are flexible			3
	framework	81						high performance			
31	(C) A open flow protocol for (D)	A onen flory wine protocol for					*1				
								(C) Software switches provides (D) Hardware switches are			
		event, message and application						less time for packet processing limited in features			
		management									
							19.	In public cloud	1	4	1
10	. VXLAN		1	1	2	1		(A) Services are available to closed (B) Services are deployed by public			
		Is an encapsulation protocol						group			
	· · · · · · · · · · · · · · · · · · ·	Is a wired LAN network									
	(C) Is a wireless LAN network (D)	is a when LAIN hetwork						(C) Services are available to public (D) Services are available in			
				1	2	2		via internet intranet only			
11	. Open flow protocol		1	1	3	3					
	(A) Defines rules for routing (B)	Defines communication					20.	Which is inline network function?	1	4	1
	ω	between any two switches						(A) Routing (B) Compression			
		Defines rules for compression						(C) Load balance (D) Performance monitoring by			
	between open flow controller							routers			
	and open flow switch							Toutels			
10	<u> </u>		1	1	3	1	21		1	5	2
1,2	. Open flow switches uses		1		5	1	21.	Cutting of connection in new release of code from old one is called 1	1	3	3
- 4	(A) MAC address for packet (B)	VLAN ID for packet matching						<u> </u>			
	matching							(A) Forking (B) Parking			
	(C) Packet ID for packet matching (D)	Switch ID for packet matching						(C) Cutting (D) Disconnection			
12	. When match flow is not found, the switch v	37111	1	1	3	3	22.	is an open flow switch.	1	5	1
13							22.	(A) Napstor (B) VMware			
		Encapsulate the packet									
		Drop the packet					40	(C) Indigo (D) Indiga			
	controller										
							23.	Openstack	1	5	3
14	. In Open flow auxiliary connections	74	1	1	3	1		(A) Is a open software for routing (B) Is a cloud computing platform			
	(A) Are connection between (B)	Are parallel multiple						(C) Is a open controller software (D) Is a open switch software			
		connection between single				-					
		controller and switch					24	In LTE network service gateway provides	1	5	1
							21.	(A) Functionality of packet (B) Functionality on control and			
	(C) Are single connection between (D)	Are connection for routing									
	switches							forwarding data plane			110.00
15	. JSON							(C) Functionality of security (D) Functionality of VMware			
-	(A) Is a human readable XML (B)	Is a HTML format									
	format						25.	SDN is used in 5G for	1	5	3
		Is a java object for simulation						(A) Network function (B) Implement high speed network			
	(D)							virtualization			
1/	A gyzitch ligtonomic to		1	1	4	1 %		(C) Implement routing (D) Implement handoff			
10	. A switch listener is to	C 4 4°C 4° 1									
	(A) Get notification when packet (B)							functionality			
		switch is added									
	(C) Get all packet and process it (D)	Get notification when a packet						$PART - B (5 \times 10 = 50 Marks)$ Marks	BL	CO 1	20
		is receives						Answer ALL Questions			
							2				
17	. The SDN application is used secure, apply	policy and blacklist application	1	1	4	1	26. a.	What is a distributed control plane? Give the protocol / mechanism for it.	2	1	3
. 7	is	r J Statistist application						*			
		cent						(OR)			
		sent					h	· ·	2	1	1
	(C) Sentinel (D)	VMware					U.	Detail on open flow protocol.	_	•	•
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