29. a.	Enumerate the data center demands.	10	4	4	1
b.	(OR) How SDN is related to wide area networks?	10	3	4	ı
30. a.	Explain different categories of open source licenses.	10	3	5	1
b.	(OR) Discuss about open source open flow switch implementation.	10	4	5	1

* * * * *

Reg. No.		
Key, No.		
200811101		

B.Tech. DEGREE EXAMINATION, NOVEMBER 2022

Sixth and Seventh Semester

18ECE320T – SOFTWARE DEFINED NETWORKS

NT 4	(For the candidates admitted from	n the a	cademic year 2018-2019 to 2019-2020	<i>?)</i>			
Note: (i)	Part - A should be answered in OMR	sheet v	within first 40 minutes and OMR shee	t shou	ld be	han	ded
(1)	over to hall invigilator at the end of 40 th			r birou.			
(ii)	Part - B should be answered in answer by						
Time: 2	½ Hours			Max.	Ma	rks:	75
	PART – A (25 × 1	= 25]	Marks)	Marks	BL	со	PO
	Answer ALL C		*				
* 1.	A number of universities collaboration	rated	to propose a new standard for	1	1	1	1
	networking called						
	(A) Open flow	(B)	Linux				
	(C) VMware	$_{0}(D)$	XEN				
2	The action that is not taking at the da	ata nla	one is	1	2	1	1
۷.	(A) Forward		Drop				
	(C) Count	. ,	RIB matching				
	(3)	(-)	2				
3.	The was a multicast specific elan.	serve	er that handled bum traffic for a	1	2	1	1
		(B)	LEC			3.3	
	(C) LECS		LES				
					2	,	,
4.	environment encourage	_		1	2	1	1
	(A) Open	` /	Closed				
	(C) Mixed	(D)	Autonomous				
5.	Theis programmed once stable.	e the	RIB is deemed consistent and	1	2	I	1
	(A) Punt path	(B)	FIB				
	(C) RIB	(D)	Data server				
6	Which is not a trait of SDN?			1	2	2	1
0.	(A) Plane separation	(B)	Simplified device				
	(C) Distributed control	. ,	Network automation				
		()					
7.	SDN applications are part of the		layer.	1	2	2	1
	(A) Application	(B)	Network				
	(C) Physical	(D)	Session				
8	The main drawback of API based SI)N me	ethod is	1	2	2	1
0.	(A) Use of standard TCP port		Firewall is not required				
	(C) Extensibility	(D)	Does not provide network wide				ő.
	• •	. /	•				

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9.		ontributions from UC Berkeley.	1	2	1	19.	
		B) NOX					(A)
	(C) MININET (D) NICIRA					(C)
10.	The primary job of PLEXXI control	ter is to gather information about	2	2	1	20	Black
						20,	malic
	(A) Affinities dynamically from (I	3) Affinities dynamically from					(A)
	external system	internal system					(C)
	(C) Routing dynamically from (I						()
	external system	internal system				21.	
11	0		•	•			(A)
11.	Open flow protocol define communicat		2	3	1		(C)
	(A) Controller and application (I						
	(C) Switch and application (1) Switches				22.	
12	is not a matching fie	d used by the packet matching 1	2	3	1		contro
12.	function.	d used by the packet matching	-	,	•		(A)
	(A) Switch input port (1	R) IP source address					(C)
	4-1	D) MAC address				22	The c
		, in the undirector				23.	(A)
13.	is not a additional function	nality in open flow 1.3.	2	3	1		(C)
	(A) A multipart_request/multipart_ (l						(C)
	reply message pair					24.	Open
	(C) Per user_per byte basis meter (I) Per flow basis meter					(A)
							(C)
14.		tics relative to the flow in a flow	2	3	1		` /
	table.					25.	
	(A) Counter (I (C) Action field (I	3) Header					(A) 1
	(C) Action field (I	Port information			•		(C) 1
15	are emitted assynchron	ously in response to some event	2	3	1		
15.	within the network element.	ously in response to some event	_	,	1		
		3) Notifications					
		O) Responses					
	(*)	, responses				26 a	Expla
16.	Organizations that provide specialized	data center services on behalf of 1	2	4	1	20. a.	how in
	other client organizations are categorize						HOW I
		Private multi tenant					
	(C) Public single tenant (I	Public multi tenant				b.	Discu
10	5						
1/.	Google data center followsSI		1	4	I	27. a.	Expor
	(B) Underlay					
	(C) Open (I	O) Closed					
18.	The encapsulation of entire layer two	MAC frame inside an IP packet is 1	2	4	1	b.	Illustr
- 5.	called tunneling.	The frame morde and it packet is		,	-		SDN
		3) IP in IP				20 -	Цот
)) IP in MAC				20. ä.	How I
		1-13-1: F* - **					
						h	Enum

4.13		•		7	٠
(A) Client (B) Master					
(C) Slave (D) Network slicer					
Blacklist is a list of that are known or suspected to	be	1	2	4	1
malicious.					
(A) IP address (B) MAC address					
(b) Tel segment					
incorporates the notion of convilett		1	2	5	1
		_	_		
(C) GIL (D) BSD					
is a material and a series of the series of	• .	1	2	-	,
a not the management approached for the mount	ght	1	2	3	1
(C) Bird (D) Pantou					
		1	2	5	1
(A) Swift and cinder (B) Horizon					
(C) NOVA (D) Glance					
Open flow energy saving mechanism in the data center is		1	2	5	1
Adult The Control of					
is a data plane function.		1	2	5	1
(A) Mobility management (B) Charging and accounting					
(C) User authentication (D) Access control					
(b) Recess control					
DADT D (5 v 10 - 50 Manks)	M	relro	RI.	CO	PΩ
	141		.,,		• • • •
Answer ALL Questions		2			
Production du Control de Control		0			1.2
Explain the functionalities of control plane and data plane and illustr	ate ¹	.0	3	1	1
now information exchange takes place between them.					
, ,					
Discuss about hybrid architecture models of SDN.	1	0	3]	1
Expound the five essential traits of SDN.	1	.0	3	2	1
(OR)					
Illustrate about NICIra NVP controller and its relationship to idealize	red 1	0	4	2	1
SDN framework.					
How puppet helps system administrators to manage infrastructure?	1	0 ,	4	3	1
(OR)					
Enumerate the messages exchanged between the controller and switch.	1	n	- <u>1</u>	3	,
	(A) Client (C) Slave (D) Network slicer Blacklist is a list of	CC Slave	(A) Client (C) Slave (D) Network slicer Blacklist is a list of	(C) Slave (D) Network slicer Blacklist is a list of	(A) Client (B) Master (C) Slave (D) Network slicer Blacklist is a list of

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