29. a.	Enumerate the data center demands.	10	4	4	1
h	(OR) How SDN is related to wide area networks?	10	3	4	1
30. a.	Explain different categories of open source licenses.	10	3	5	1
	(OR)	10	4	5	1
b.	Discuss about open source open flow switch implementation.	10	7	J	1

* * * * *

Reg. No.

B.Tech. DEGREE EXAMINATION, NOVEMBER 2022

Sixth and Seventh Semester

18ECE320T – SOFTWARE DEFINED NETWORKS

	(For the candidates admitted fro	om the a	cademic year 2018-2019 to 2019-2020	0)			
Note:	,						
(i)	Part - A should be answered in OMR over to hall invigilator at the end of 40			t shoul	d be	han	ded
(ii)	Part - B should be answered in answer	bookle	t.				
Time: 2	½ Hours			Max.	Ma	rks:	75
						~~	
	$PART - A (25 \times 1)$,	Marks	BL	CO	PO
8	Answer ALL	-		1	1	1	1
1.	A number of universities collab networking called	orated	to propose a new standard for	- 1	1	1	1
	(A) Open flow	(B)	Linux				
	(C) VMware	$_{\cdot}(D)$	XEN				
2	The action that is not taking at the	data nla	one is	1	2	1	1
۷.	(A) Forward	•	Drop				
	(C) Count	. ,	RIB matching				
				1	2	1	,
3.	The was a multicas specific elan.	t serve	er that handled bum traffic for a	1	2	1	1
		(B)	LEC			1.2	
	(C) LECS		LES				
		()					
4.	environment encour	age ver	ndor lock in.	1	2	1	1
	(A) Open	(B)	Closed				
	(C) Mixed	(D)	Autonomous				
5.	Theis programmed on stable.	ce 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				
				,	2	2	
7.	SDN applications are part of the		layer.	1	2	2	1
	(A) Application	` /	Network				
	(C) Physical	(D)	Session				
8.	The main drawback of API based S	DN me	ethod is	1	2	2	1
	(A) Use of standard TCP port		Firewall is not required				
	(C) Extensibility	(D)	Does not provide network wide				10

view

9.	was developed with major cor	itributions from UC Berkeley.	1	Ĺ	2	1	
	(A) ONIX (B)	NOX					
	(C) MININET (D	NICIRA					
		,					
10.	The primary job of PLEXXI controlle	r is to gather information about	i	2	2	1	
	1 many just the demand commons	i is to gamer information hoods					
	(A) Affinities dynamically from (B)	Affinities dynamically from					
	external system						
		internal system					
	(C) Routing dynamically from (D)	Routing dynamically from					
	external system	internal system					
11	O 1 1 C	1	,	2	2		
11.	Open flow protocol define communicatio		1	2	3	1	
	(A) Controller and application (B)						
	(C) Switch and application (D)	Switches					
12.	is not a matching field	used by the packet matching	1	2	3	1	
	function.						
	(A) Switch input port (B)	IP source address					
	(C) VLAN ID (D)	MAC address					
13.	is not a additional functional	lity in open flow 1.3.	1	2	3	1	
	(A) A multipart_request/multipart_ (B)	More flexible table miss flow					
	reply message pair						
	(C) Per user_per byte basis meter (D)	Per flow basis meter					
14.	are used to track statisti	cs relative to the flow in a flow	1	2	3	1	
	table.						
	(A) Counter (B)	Header					
×	(A) Counter (B) (C) Action field (D)	Port information	-				
	(2)	Tore information					
15.	are emitted asynchrono	isly in response to some event	1	2	3	1	
	within the network element.	asiy in response to some event					
	ers and	Notifications					
	(C) Queries (D)	Responses					
16	Organizations that avorida amazinling	lata contan assissis 1 1 10 C	1	2	4	1	
10.	Organizations that provide specialized of		1	2	4	1	
	other client organizations are categorized	•					
	A dia and a dia	Private multi tenant					
	(C) Public single tenant (D)	Public multi tenant					
1.0	6. 1. 1						
1/.	Google data center followsSDI		1	1	4	1	
		Underlay					
	(C) Open (D)	Closed					
18.	The encapsulation of entire layer two M	AC frame inside an IP packet is	1	2	4	1	
	calledtunneling.						
	(A) MAC in MAC (B)	IP in IP					
		IP in MAC					

19.	is not the functional component of Hadoop.			1	2	4	I
	(A) Client	(B)	Master				
	(C) Slave	(D)	Network slicer				
20.	Blacklist is a list of	that	are known or suspected to be	1	2	4	1
	(A) IP address	(B)	MAC address				
	(C) TEP	` ′	TCP segment				
21.	incorporates the notion	n of co	ny left	1	2	5	1
	(A) Apache	(B)					
	(C) GPL	` '	BSD				
22.	is a network mana	agemen	at application for the floodlight	1	2	5	1
	controller.	ивоппоп	a approach for the modification				
	(A) Quagga	(B)	Avior				
	(C) Bird	` '	Pantou				
		(2)	Tuntou				
23.	The compute function in open stack	is calle	ed	1	2	5	1
	(A) Swift and cinder						
	(C) NOVA	` '	Glance				
		(2)	-				
24.	Open flow energy saving mechanism	m in the	e data center is	1	2	5	1
			Mobile traffic off load				
			Multicore ASIC card				
25.	is a data plane function	on		1	2	5	1
(A) Mobility management (B) Charging and accounting							
	(C) User authentication	(D)	Access control				
			*				
$PART - B (5 \times 10 = 50 Marks)$					BL	CO	PO
Answer ALL Questions							
26. a.	Explain the functionalities of contr	rol plan	ne and data plane and illustrate	10	3	1	1
	how information exchange takes place	ice betv	veen them.				
	(OR)						
b.	Discuss about hybrid architecture mo		f SDN.	10	3	1	1
27. a.	Expound the five essential traits of S	SDN.		10	3	2	1
	10.71						
ъ.	(OR) Illustrate about NICIra NVP contr		nd its relationship to idealized	10	4	2	1
	SDN framework.		1				
28. a.	How puppet helps system administra	ators to	manage infrastructure?	10 ,	4	3	1
4 -	(OR)						
b. Enumerate the messages exchanged between the controller and switch.				10	4	3	1

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