b.	Outline the following virtualization with neat sketch. (i) Hardware assisted CPU virtualization (ii) Memory virtualization	10	3	2	5
28. a.	How to sort the different clouds such as public, private and hybrid clouds? With a neat diagram explain.	10	2	3	1
b.	(OR) Demonstrate the concept of full virtualization implementations. (i) Binary translation of guest OS request using VMM. (ii) Host based virtualization.	10	3	3	3
29. a.i.	What is enterprise service bus? How does it work.	5	2	4	1
ii.	With a neat sketch, discuss the 3tier system architecture.	5	2	4	1
b.	(OR) Describe about message oriented middleware architecture of publish and subscribe model.	10	3	4	5
30. a.	In detail explain the programming on Amazon EC ₂ .	10	2	5	1
b.	(OR) Discuss about Swazall and pig Latin high level language for parallel data processing.	10	3	5	5

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B.Tech. DEGREE EXAMINATION, MAY 2022

Sixth Semester

18ECE335T – INTRODUCTION TO VIRTUAL COMPUTING

Note:		(For the candidates damitted from	i ine u	cademic year 2018-2019 to 2019-2020	"			
(i)				vithin first 40 minutes and OMR shee	t shoul	d be	han	ded
410		to hall invigilator at the end of 40 th						
(ii)	Par	t - B should be answered in answer b	ooklet					
Time: 2	2½ Ho	urs		Approximate and after	Max.	Ma	rks:	75
				The course of the course	Marks	BL	CO	PO
		$PART - A (25 \times 1)$						
	771	Answer ALL C			1	1	1	1
1.	calle	ed	pie ins	stances of resources to be used is				
	(A)	Replication transparency	(B)					
	(C)	Concurrency transparency	(D)	Performance transparency				
2				puters, having a private memory,	1	1	1	1
		municating through a computer						
	\ /	Distributed computing	. ,	Cloud computing				
	(C)	Centralized computing	(D)	Parallel computing				
3	. Clou	ud computing and web services	platf	form are focused on applications	1	2	1	5
	(A)	High performance computing	(B)	High throughput computing				
	(C)	High control computing	(D)	High redundancy computing				
4	. A g	global system of interconnecte	ed co	mputer networks is known as	1	1	1	1
	(A)	Ethernet	(B)	Intranet				
	(C)	Internet	(D)	Ultra-net				
_			,	all relies a section in	1	2	1	5
5		and cloud platforms are regarde		The state of the s	-		•	_
	` ,	Parallelized services		Innovative services				
	(C)	Utility services	(D)	Cyber services				
6	. Log	ical extension of computation m	igratio	on is	1	1	2	1
	_	Process migration	_	System migration				
	(C)	Thread migration	(D)	Data migration				
7	Dwar	cesses on the remote systems are	ident	ified by	1	2	2	1
/		Host ID		Host name and identifier				
		Identifier	(D)	Process ID				
	(C)	Identifici	(1)	110003 117				

	accessing remote data in a distributed	bile time program transformation for memory parallel system? (B) Computation migration (D) Message passing	1	2	2	1	19.	m (A	ne most commonly used set of protocols usesas the essaging format. (B) BSON (C) XML (D) HTTP	1	1	4	5	
9.	In distributed systems, link and site for (A) Polling (C) Token passing		1	1	2	1	20.	en (A	lets a web service advertise itself in terms of a collection of adpoints. A) SOAP (B) WSDL (C) VMc (D) SOA	1	2	4	5	
10.	In the context of cloud computing, w	hat is the full form of PaaS?	1	1	2	1								
	(A) Payment as a service(C) Performance as a service	(B) Platform as a service(D) Protocol as a service					21.	m	Thich of the following is used for the packaging and distribution of one or ore virtual appliances? (B) AJAX	1	2	5	5	
11.	Identify the odd one out(A) Amazon web service(C) Google cloud platform	(B) Microsoft azure (D) Twitter platform	1	2	3	3			C) OVF(Open Virtualization (D) SMTP Format)					
							22.	. W	That is the example of P2P networks?	1	2	5	1	
12.	Which one of the following runs on 2 (A) Azure	(B) AWS EC2	1	1	3	1		,	A) Facebook (B) Amazon (C) Gmail (D) Azure					
	(C) CAWS EC3	(D) AWS EC4					22	D	•	1	2	5	5	
13.	Which one of the following is the creates virtual network interfaces?	type of a service that manages and	1	2	3	3	23.		oint out the correct answer A) Data centers have been sited to (B) Flipkart's infrastructure was optimize the overall system built to support elastic demand	-	= -	3	3	12.
	(A) VMware Vstorage(C) VMware Vcomputer	(B) Application services(D) VMware Vnetwork						((latency so the system could accommodate peak traffic C) Datacenter's don't optimize (D) Google's cloud includes to					
14.	In which type of VM, full virtualization	ion can be possible?	1	1	3	1		(-	the system latency datacenters worldwide					
	(A) Type 4 (C) Type 2	(B) Type 3 (D) Type 1					24.		enable multiple users to access the same application logic	1	1	5	I	
								si	multaneously.					
15.	Which of the following was owned services?	d by an organization that sells cloud	1	1	3	1	¥	(A	A) Web technology (B) Service technology (C) Virtualization technology (D) Multitenant technology					
	(A) Hybrid	(B) Public												
	(C) Private	(D) Community					25.	(/	Thich of these companies is not a leader in cloud computing? (B) Blackboard	1	1	5	1	
16.	application servers is said to be	sidered responsible for the success of	I	2	4	1		((C) Google (D) Amazon					
	(A) Two tier architecture	(B) Three tier architecture							P. 17 10 10 10 10 10 10 10 10 10 10 10 10 10	Marks .	DI.	00	no.	
17	(C) n-tier tier architecture	(D) Peer-to-peer architecture	1	2	4				PART – B ($5 \times 10 = 50 \text{ Marks}$) Answer ALL Questions	TATES	DL	CO	FO	
17.		dard for cloud computing industry. (B) Web application frameworks		-			26 -	TŽ.		10	2	1	1	
	(A) Standardized web service(C) Web based architecture	(D) Service oriented architecture					20. a	. E.	xplain in detail about cluster job and resource management.	10	-	•		
	(C) Web based are intecture	(b) Service offented architecture							(OD)					1
18.	In which of the following clients muto receive the messages?	ust have continuous connection to host	I	1	4	1	b	. D	(OR) iscuss in detail about multicore technologies.	10	3	1	5	
	(A) POP (C) SMTP	(B) IMAP (D) Both A and B	-,				27. a		laborately discuss about live VM migration steps and performance effects ith a neat diagram.	10	3	2	1	
									(OR)					

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