b.i.	Write short notes on enabling technologies of cloud computing.	5	1	3	2
ii.	Compare the benefits and challenges of cloud computing, cloud applications and application availability.	5	1	2	1
27. a.	Discuss in detail about implementation levels of virtualization.	10	2	4	1
	(OR)				
b.i.	Write short notes on virtualization support and disaster recovery.	5	2	3	3
ii.	Discuss in detail about server virtualization with an example of Intel server.	5	2	3	5
28. a.	Explain in detail about hybrid storage networking technologies.	10	3	4	1
	(OR)				
b.	Write down the various steps and design consideration of cloud applications technologies and the process required when deploying web services.	10	2	4	2
29. a.i.	Write short notes on resource provisioning methods.	5	1	3	1
ii.	How do you choose economically a cloud platform for an organization? Justify.	5	2	2	2
	(OD)				
	(OR)	10	_	2	
b.	Explain in detail about NIST-cloud computing architecture.	10	3	3	3
30. a.i.	Define and list out the cloud architecture patterns.	5	2	4	2
ii.	State the challenges of auto scaling pattern.	5	2	5	1
	(OD)				
ь.	(OR) Compare and contrast in detail node failure pattern with multisite deployment pattern.	10	2	4	5

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Reg. No.								

## B.Tech. DEGREE EXAMINATION, MAY 2022

Sixth Semester

## 18CSE344T – CLOUD ARCHITECTURE

(For the candidates admitted from the academic year 2018-2019 to 2019-2020)

Note	:	, , , , , , , , , , , , , , , , , , , ,				
(i)		<b>Part - A</b> should be answered in OMR sheet within first 40 minutes and OMR sheet should to hall invigilator at the end of 40 <sup>th</sup> minute.	d be	han	ded o	ver
(ii)	)	Part - B should be answered in answer booklet.				
Time	e: 2	½ Hours Ma	x. N	1ark	s: 7	5
		$PART - A (25 \times 1 = 25 Marks)$	Iarks	BL	СО	PO
		Answer ALL Questions				
	1.	The term "cloud" in cloud computing is referred as	1	1	1	1
		(A) Wireless (B) Hard drives				
		(C) People (D) Internet				
		and the second s				
	2.	In below mentioned companies which does not a support for cloud computing?	1	1	1	1
		(A) Google (B) Amazon				
		(C) Black board (D) Microsoft				
	3.	To combine many networks or parts of networks in to a virtual unit is known as	1	1	1	1
		(A) Internal network virtualization (B) External network virtualization				
		(C) Storage virtualization (D) Desktop virtualization				
	4.	In below mentioned cloud characteristic refers to the ability of users to scalab its service as needed without having to contact a human representative of the cloud service provider	1	I	1	1
		(A) Resource pooling (B) Rapid elasticity				
		(C) On-demand self service (D) Broad network access				
	5.	REST is a software architecture style is used for	1	1	1	1
		(A) Distributed systems (B) Centralized systems				
		(C) Parallel computing (D) Soft computing				
	6.	The term message filtering is referred as	1	1	2	2
	٠.	(A) Content-based message selection (B) Controller				
		(C) Publish (D) Message bus				
	-					
	/.	Which of the following virtualization abstraction levels having WINE and rCUDA software packages?	1	2	2	2
		(A) Hardware Abstraction Layer (B) Operating system level (HAL) level				
		(C) Library (user-level API) level (D) Application level				

							17.	Point out the correct statement.	2	4	5
8.	The virtualization layer is responsible	for converting portions of the	I	2	2	1		A) Map reduce tries to place the (B) Map task in map reduce is			
	into virtual hardware.							data and the computation as performed using the mapper ()			
	(A) Real firmware	(B) Real operating system						close as possible function			
	(C) Real software	(D) Real hardware						*			
	(c) Itali boltware	(2) 11011 1111 1111						C) Reduce task in map reduce is (D) Increase task in map reduce is			
0	anthropa given antomnicas sagui	rity professionals both insight into and	1	2	2	3		performed using the map () performed using the map ()			
9.								function function			
	a track record of the activities within the										
	(A) Security Information Managemen						18.	The method followed in case of node failure, where the node gets disabled is 1	2	1	]
	(B) Security Event Management (SEN										
	(C) Security Information and Event M	Ianagement (SIEM)						(A) STONITH (B) Fibre channel			
	(D) Security Audit Management (SAN	M)						(C) Fencing (D) Token ring			
								(-)			
10.	module evaluates how differ	ent storage infrastructure components	1	2	2	3	10	is a horizontal scaling strategy in which resources from each node is	2	3	1
	are performed efficiently to identity be						19.	added to the existing stack.			
	(A) Security monitoring	(B) Performance monitoring									
		(D) Accessibility monitoring						(A) Sharding (B) Resources			
	(C) Availability monitoring	(D) Accessionity monitoring						(C) Map reduce (D) Database			
			1	2	2	3					
		ns of an entity uniquely to that entity	1	L	2	3	20.	In cloud computing, node failure scenario mechanism of sudden failure + 1	3	2	
	using technique.							restart is initiated by			
	(A) Accountability	(B) Database management						(A) Sudden hardware failure (B) Cloud platform			
	(C) Access policy	(D) Log file						(C) Application update (D) Application managed reboot			
								(a) 1.pp			
12.	The process in which if one party of	cannot deny receiving a message or a	1	2	3	1	21	Mirroring data asynchrony to a remote size, is an example of	2	2	
		sending a message or a transaction is					21.				
	1	bending a message of a management is						(A) RPO in the order of minutes (B) Near zero RPO			
	(A) Authentication	(B) Authorization						(C) RPO of 1 hour (D) RPO of 24 hours			
	·								2	0	
	(C) Authenticity	(D) Non-repudiation					22.	Which of the following storage methods used for storage virtualization?	3	2	
			1	2	3	2		(A) File-based and byte stream based (B) File-based and block based			
13.		e for backup site whenever booting is	1	2	3	2		(C) Record-based and block based (D) File-based and bit stream based			
	necessary?										
	(A) Active / cold standby	(B) Active / hot standby					23	A NAS architecture is suitable fortype of real time applications.	2	- 3	
	(C) Active / active standby	(D) Cold / active standby						(A) Secured access (B) Shared access			
								(C) Remote access (D) Parallel access			
14.	is a party that can perform	an independent examination of cloud	1	2	3	2		(C) Remote access			
1	service controls with the intent to expr						2.4	CCC-it-11	2	2	
	(A) Cloud server	(B) Cloud user					24	Efficient cloud computing centers can be created using techniques.	_	_	
	(C) Cloud auditor	(D) Hypervisor						(A) Transubstantiation (B) Virtualization			
	(C) Cloud auditor	(D) Hypervisor						(C) Cannibalization (D) Insubordination			
1 ~	YEM : 1	1 11 /	1	2	3	5		n			
15.	_	l, adds / removes computing virtual	1	2	,	3	25	Applications and services that run on a decentralized network using 1	1	2	
	instances based on the current utilizat							hypervisor is called as			
	(A) Demand-driven method	(B) Event-driven method						(A) Cloud (B) Grid			
	(C) Popularity-driven method	(D) Integrated-driven method						(C) Parallel (D) Soft computing			
								(b) Faither (b) Soit Companing			
16.	In cloud server, hacker exploits vu	Inerabilities of a web application and	1	2	3	5					
		ng the course of normal execution is						Mark	s BL	CC	n r
	known as .	-5 or in inclinat overall in						$1AX1 - B (3 \times 10 - 30 \text{ Marks})$	. вс	- 00	
	(A) Malware injection attack	(R) Wranning attack						Answer ALL Questions			
		(B) Wrapping attack									
	(C) Man-in-middle attack	(D) Denial of service attack					26. a	Briefly discuss in detail about cloud services with suitable examples.	2	2	
								(OR)			

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