School of Engineering and Applied Science (SEAS), Ahmedabad University Roll no.: Name: B. Tech. (ICT): Semester VII Course: 'Cloud Computing' End-Semester Exam (Marks: 25, Weight: 25%) December 1, 2018, Duration: One hour (Sixty Minutes) **Instructions** You should write answers of Question 1 on page number 3 only and write answers of Question 2 in the box given with each sub question of Q. 2 on these papers only. You must return question paper at the end of vour exam. You can use any available space for rough work, if required. Some questions have multiple correct answers and you MUST provide all correct answers. Your answers should be precise and not vague. Q-II **Total Marks** Q - IAnswers [15] [10] [25] Correct Marks scored Q.1] Write answers of this question on page number 3 [15] 1. Which is/are true regarding cloud computing? (a) It does not provide ubiquitous access (b) It provides on-demand network access (c) Resources can be released with no management effort (d) None of these 2. Which are essential characteristics of cloud computing? (b) Resource pooling (a) On-demand self-service (d) None of these (c) Rapid elasticity 3. Cloud computing is a distributed computing model. (a) True (b) False 4. Amazon Web Services is an example of (d) None of these (c) IaaS (a) SaaS (b) PaaS 5. Email service on cloud is an example of (c) None of these (b) PaaS (a) SaaS 6. Virtual machine can't be migrated from one host to another host. (b) False (a) True 7. Customer's computer does require the processing power or hard disk space demanded while running any cloud application. (a) True (b) False 8. What is the disadvantage of cloud computing? (a) It requires continuous internet connection. (b) It does not support group collaboration.

(c) It provides limited storage.

(d) None of these.

9. V	School dirtual machines a		ng and Appli	ied Science (S	EAS), Ahmeda	ıbad Univ	ersity
	(a) SaaS	(b) PaaS	(c) IaaS	(d) None of t	hese		-
10.	Adding more res	ources to a single	e computation u	unit is known as			
	(a) Vertical s	scale up (b) H	Horizontal scale	out (c) N	lone of these		
11.	Google docs is an	n example of					
	(a) SaaS	(b) PaaS	(c) IaaS				
12.	Google App Eng	ine is an example	e of				
	(a) SaaS	(b) PaaS	(c) IaaS				
13.	Normally, each c	lient server appl	ication is load b	palanced.			
	(a) True	(b) False	(c) Can't sa	y			
14.	Which among the	e following is/are	e IaaS?				
	(a) Load bala	ancer (b) I	Data storage	(c) CRM	(d) Office suite	es	
15.	SaaS is useful in	case of applicati	ons where extr	emely fast process	sing of real time da	ita is needed	1.
	(a) True	(b) I	alse				
16.	Which of these is	s/are managed by	the user in Pa	aS?			
	(a) Data	(b) Applicati	ion (c)	Runtime (d) A	All of these		
	(a) Through(b) Availabil(c) Reliabilit(d) None of	out lity ty these		A guarantees is/are			
18.	When load decre (a) Shutdow				re utilized nodes (o	e) None of the	hese
19.	VM image shoul (a) True	d as small as pos (b) I		network latency.			
20.				netrics for resourc at (c) Delay (d) No			
21.	In mobile cloud (a) True	computing all co (b) I		done in cloud dat	a centers.		
22.	The key challeng (a) Low band (b) Service a (c) Heteroge (d) None of	dwidth vailability neity	oud Computing	g are			
23.	Security responsi a) Hypervisco b) Application c) Solution S d) Operating	or on Stack	S cloud provide	er is typically upto	which level?		
24.	Security responsi a) Hypervisco b) Application c) Storage d) Operating	oron	cloud provide	r is typically upto	which level?	in seelig ill suudade ka degala esi	
	Two CPU intensi	ive VMs with isc			e physical server w	vill incur per	rformance
into	mfananaa with and	h other Is this st	totament True	r Halce'			

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Note: Write answers of question - 1 here only and write all correct options:

Q.1	Answers
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	School of Engineering and Applied Science (SEAS), Ahmedabad University Trite precise and brief answers for the following and give brief justification for each Researcher from the applied science wants to simulate a DNA analysis only once on a computer sweem. Simulation is taking 7 days on a system with 120 cores and 64GB ram, 1 Gbps network speed. The user wants result as fast as possible. Which architecture you are suggesting: Cloud computing, High performance Computing or Grid Computing?
2.	Researcher from the applied science wants to simulate a DNA analysis repeatedly on a computer system. Which architecture you are suggesting: Cloud computing, High performance Computing or Grid Computing?
3.	The research agency wants to develop a satellite communication system which responses very quickly and as much as possible. Which architecture you are suggesting: On Premise Resource with virtualization OR or Premise Resource without virtualization.
4.	In your organization, three system engineers have set up private cloud which consist of 120 cores and 100 TE of storage. Organization has decided to reduce number of system engineers from 3 to 1 by shifting 2 engineers to another site location. Management knows that administration of current workload cannot be managed by 1 system engineer and at the same time they do not want to sell out existing setup. Which cloud model will help them to solve above problem? Public or Hybrid cloud.
5.	What is the basic or core element to support resource management in a private, public and hybrid cloud?
6.	What is down time duration per month (30 Days) if uptime SLA (Service Level Agreement) is 99.50?
7.	When IT resources hosted by Virtual servers on a public cloud impose processing requirements that exceed the virtual server's capacity, the performance and reliability of the hosted IT resources and the virtual server itself may be compromised. What action or feature of cloud computing should be initiated by the system admin?

Why Hybrid Clouds	are so important?			
What is the "equiv	valence" property	of a virtual machine mon	itor?	
