## School of Engineering and Applied Science (SEAS), Ahmedabad University Roll no .: Name: B. Tech. (ICT): Semester VII / MTech in CSE, Semester III Course: 'Cloud Computing' End-Semester Exam (Marks: 30, Weight: 30%) / for MTech (Weight: 50%) November 30, 2019, Duration: One hour thirty minutes (Ninety Minutes) Instructions Write all your answers in the box given on these papers only and you should return question paper at the end of your 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 Total Marks O-III O - IO-II Answers [30] [10] [5] [15] Correct Marks scored [15] [Q.1] Write answers of this question on page number 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? (a) On-demand self service (b) Resource pooling (c) Rapid elasticity (d) None of these 3. Cloud computing is a distributed computing model. (b) False (a) True 1. Amazon Web Services is an example of (a) SaaS (b) PaaS (c) IaaS (d) None of these 5. Email service on cloud is an example of (a) SaaS (b) PaaS (c) None of these 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

## School of Engineering and Applied Science (SEAS), Ahmedabad University 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. Virtual machines are example of (a) SaaS (b) PaaS (c) IaaS (d) None of these 10. Adding more resources to a single computation unit is known as

(a) Vertical scale up (b) Horizontal scale out (c) None of these

(a) Load balancer (b) Data storage (c) CRM (d) Office suites

15. SaaS is useful in case of applications where extremely fast processing of real time data is needed.

(a) Shutdown unused nodes (b) Live migration of VMs to more utilized nodes (c) None of these

20. Which of the following is/are the performance metrics for resource management?

11. Google docs is an example of

(a) SaaS (b) PaaS (c) IaaS

12. Google App Engine is an example of

(a) SaaS (b) PaaS (c) IaaS

(a) True (b) False (c) Can't say

16. Which of these is/are managed by the user in PaaS?

18. When load decreases, VM management can be done by

22. The key challenges for Mobile Cloud Computing are

(a) Data (b) Application (c) Runtime (d) All of these

17. Metrics used for monitoring and auditing of SLA guarantees is/are

19. VM image should as small as possible to reduce network latency.

(a) Control overhead (b) Ease of deployment (c) Delay (d) None of these

21. In mobile cloud computing all computations are done in cloud data centers.

23. Security responsibilities of a SaaS cloud provider is typically upto which level?

14. Which among the following is/are IaaS?

(a) True (b) False

(a) Throughput(b) Availability(c) Reliability(d) None of these

(a) True (b) False

(a) True (b) False

(a) Low bandwidth(b) Service availability(c) Heterogeneity(d) None of these

a) Hypervisorb) Applicationc) Solution Stackd) Operating System

13. Normally, each client server application is load balanced.

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- 24. Security responsibilities of a IaaS cloud provider is typically upto which level?
- a) Hypervisor
- b) Application
- c) Storage
- d) Operating System
- 25. Two CPU intensive VMs with isolated CPU resources on the same physical server will incur performance interference with each other. Is this statement True or False?

(a) True

(b) False

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

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C	omputing or Grid Computing?
	Researcher from the applied science wants to simulate a DNA analysis repeatedly on a computer system.
2. R	Researcher from the applied science wants to simulate a DNA allaysis repeated, it is a computing?  Which architecture you are suggesting: Cloud computing, High performance Computing or Grid Computing?
	system which responses very quickly and as
	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.
	In your organization, three system engineers have set up private cloud which consist of 120 cores and 100 T
	of storage. Organization has decided to reduce humber or system to another site location. Management knows that administration of current workload cannot be managed by to another site location. Management knows that administration of current workload cannot be managed by the same time they do not want to sell out existing setup. Which cloud model we have an appropriate and at the same time they do not want to sell out existing setup.
	help them to solve above problem? Public or Hybrid cloud.
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5.	What is the basic or core element to support resource management in a private, public and hybrid cloud?
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Define following terms briefly and	precisely. You can draw figures whenever required.	[5]		
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