# Cairo University Faculty of Computers and Information



عِادا المعمولية شوفي

## Final Term Exam

Name: Selected Topic 1(Cloud Computing)

Code (CS495)

ctor(s): Prof. Fatma Omara

Date: 21/7/2020 Duration: 1.5 hours Total Marks: 80

## **Answer The Following Questions**

# stion 1: Complete the following statements

[50 marks]

Which of the following is not a cloud stakeholder?

- a. Cloud providers
- b. Clients
- c. End users
- d. Cloud users

\_\_\_\_\_ is the technology integrates Cloud Computing with Mobile را مية ابن الوردى environment.

- a. Ad hoc Computing
- b. Edge Computing
- c. Virtualization
- d. Mobile Cloud Computing

refers to the interaction and communication between machines to produce and exchange data

- a. Big Data
- b. Consolidation
- c. Internet of Things
- d. Migration

In Cloud Computing, ----- concerns about resource discovery and selection

- a. Scheduling
- b. Provisioning
- c. Monitoring
- d. All the above

5-	Migrai	tion is the process of me	oving a vivi from		
	a.	One host server to ano	ther		
	b.	Storage location to and	other		
	c.	one data center to anot	her		
	d.	All the above			
6-	is the abstraction of a single computer hardware into several VN				
	a.	Horizontal Virtualizati	ion		
	b.	Vertical Virtualization	-		
	c.	X-Y Virtualization			
	d.	Not all the above			
7-	is a cloud service provided to the business users to complete				
	their b	usiness tasks			
	a.	SaaS			
	b.	PaaS			
	c.	IaaS			
	d.	CaaS			
8-	is a cloud service provided to the users to complete their tasks b				
	access		ons on the user premises		
	a.	SaaS			
	b.	PaaS			
	c.	IaaS			
	d.	Attached Service			
9-	· ·	is a collection	on of organizations have the same aims		
	constr	ucted dynamically to sh	are data		
	a.	P2P			
	b.	Cluster Computing			
	c.	Grid Computing			
	d.	Virtual Organization	16-2400 (20 00 00 00 00 00 00 00 00 00 00 00 00 0		
			.6-11-03		

is a combination of heterogeneous, hierarchical, and distributed computing resources

- a. Grid
- b. Cloud
- c. Clusters
- d. Jungle Computing

is a technique for transferring VM execution to an optimal offload site as users move

- a. Cloudlet
- b. Virtual organization
- c. VM handoff
- d. VM Synthesis

In this type of cloud, the cloud is composed of multiple internal or external clouds.

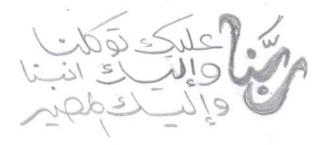
- a. Private
- b. Public
- c. Multi-Cloud
- d. Hybrid

Which of the following type of virtualization is also characteristic of cloud computing?

- a. Storage
- b. Application
- c. CPU
- d. All of the Above

Which of the following is the operational domain of Cloud Computing?

- a. Scalability
- b. Portability and interoperability
- c. Flexibility
- d. All the above



15- Which of the following	computing emphasizes	proximity to end	user?
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- a. Mist computing
- b. Cloud Computing
- c. Grid computing
- d. Fog computing

## 16- Which computing can be heavy weight and dense form of computing power

- a. Mobile Cloud Computing
- b. Fog computing
- c. Ad Hoc computing
- d. Cloud Computing

### 17- Where does Fog computing reside in a company's network?

- a. At remote servers
- b. In the Cloud
- c. In a local network
- d. At the edge

### 18- What are characteristics of distributed system?

- a. Its users, servers and storage devices are dispersed
- b. Service activity is not carried out across the network
- c. They have single centralized data repository
- d. There are multiple dependent storage devices

# 19- When the virtual machine manager (VMM) is directly installed on hardware system is known as -----

- a. Hardware virtualization
- b. Operating system Virtualization
- c. Server Virtualization.
- d. Storage Virtualization

### 20- In distributed system each processor has its own

- a. Local Memory
- b. Clock
- c. Both Local Memory and Clock
- d. None of the above

21- The b	penefits of the Cloud Computing is to
b. c.	Reduce operational costs while increasing the effectiveness of IT processes  Fast application implementation and deployment  Move from Capex to Opex  All the above
a. b. c.	means the condition where the VM does not have sufficient urces to fulfill the SLA  Hot Spot Elasticity Reliability Interoperability
23- What	is t common problem found in the distributed system
b. c.	Process Synchronization Communication synchronization Deadlock problem All the above
	capability of a system to adapt the increased service load is
b. c.	Scalability Tolerance Capacity Availability
2	harvests IT resources from existing nonexclusive and sporadically ble hosts in a company and exposes them to Cloud users
b. c.	Mobile Cloud Computing Fog Computing Grid Computing Ad Hoc Computing

- [1] By using virtualization, all severs and the software applications which are required by other cloud providers are maintained by the third party people
- [2] The combination of both volunteer computing and virtualization is considered the backbone of the Cloud Computing.
- [3] Edge computing provides users with different capabilities to store and process their data in third party data centers
- [4] Fog computing reduce latency by processing data where it is generated and used
- [5] Creation of a virtual machine over existing operating system and hardware is known as Hardware Virtualization.
- [6] Virtual machine consolidation is the task of moving a virtual machine from one physical hardware environment to another.
- [7] A hypervisor is a hardware virtualization technique that allows multiple guest operating systems to run on a single host system at the same time.
- [8] In PreCopy, pages are transferred continuously without suspension of source VM. Once sufficient pages are transferred, VM gets suspended at the source and the remaining state is transferred to the target physical machine.
- [9] In a distributed system, the user can access remote resources either by logging into the appropriate remote machine or transferring data from the remote machine to their own machine.
- [10] The capability of a system to adapt the increased service load is called availability

With My Best Wish Prof. Fatma Omai