

Cairo University Faculty of Computers and Artificial Intelligence



Med Term Exam

Course Name: Advanced Topics in Software Engineering
Course Code: CS466

Duration: 1 hours

Instructor(s): Prof. Fatma Omara

Total Marks: 20

Answer The Following Questions

Question 1: Complete the following statements [10 marks] 1- concerns about how to allocate resources of a system in Cloud Computing among users' workloads a. Scheduling b. Provisioning c. Monitoring d. All the above 2- is a cloud service provided to the developers to develop applications a. SaaS b. PaaS c. IaaS d. All the above 3-is the degree to which new resource can be added and made available for using by a variety of client programs a. Scalability b. Openness c. Heterogeneity d. Reliability 4- is a combination of heterogeneous, hierarchical, and distributed computing resources a. Grid b. Cloud

c. Clusters

d. Jungle Computing

5-	security	
	a.	SaaS
		PaaS
	c.	IaaS
	d.	All the above
6-	Dis	tributed systems have
	a.	High security
	b.	Better resource sharing
	c.	Better system utilization
	d.	Low system overhead
7-	If o	ne site fails in the distributed system,
	a.	The remaining sites can continue operating
	b.	All the sites will stop working
	c.	Directly connected sites will stop working
	d.	None of the mentioned
8-	Atta	ached Services is considered
	a.	SaaS
	b.	PaaS
	c.	IaaS
	d.	All the above
9-	Hid	e that a resource may be moved to another location while in use
	a.	Access Transparent
	b.	Relocation Transparent
	c.	Migration
	d.	All of the mentioned
10-	Wh	ich of the following is not an advantage of Distributed ems
	a.	Reliability
	b.	Incremental growth
		Resource sharing
	d.	None of the above

Question 2: Define the following [10 marks]

- [1] Cloud Computing
- [2] Performance miss match
- [3] Live Lock
- [4] Cloud Bursting
- [5] SLA

- 2-several components run at speeds (performance) that are significantly different (mismatch).
- 3 -Livelock is a situation where two or more processes continually repeat the same interaction in response to changes in the other processes without doing any useful work

With My Best Wishes Prof. Fatma Omara

- 4 Cloud bursting is an application deployment technique in which an application runs in a private cloud or data center and bursts into a public cloud when the demand for computing capacity increase
- 5- A service level agreement (SLA) is a contract between a service provider and a customer, defining the types and standards of services to be offered