Paper / Subject Code: 94729 / Information Technology: Cloud Computing (R.2019)

MSC/SemI (08/01/2020)

(Time: $2\frac{1}{2}$ hours)

N. 1	B.: (1) All questions are compulsory.	
	(2) Make suitable assumptions wherever necessary and state the assumptions made.	
	(3) Answers to the same question must be written together.	
	(4) Numbers to the <u>right</u> indicate <u>marks</u> .	
	(5) Draw <u>neat labeled diagrams</u> wherever necessary.	
	(6) Use of Non-programmable calculators is allowed.	
g i		
1.	Attempt <u>any two</u> of the following:	12
a•	Explain the cloud computing reference model with the help of a diagram.	
b.	What are the components of distributed system? Explain.	
C.	Explain the security rings and privilege modes.	
d.	What is server consolidation? Explain the process of live migration.	
2.	Attempt any two of the following:	12
	What is cloud computing? With the help of a diagram, explain the cloud computing	-
	architecture.	
b.	What are different cloud security threats? Explain each in brief.	
	Explain the Amazon elastic block store and Amazon elastic cache.	
	State and explain the different application services offered by GAE.	
3. A	Attempt <u>any two</u> of the following:	12
a I	Explain load balancer and its use in cloud service.	
b. \	What is failover mechanism? Explain the two basic configurations of failover systems.	
c F	Explain the resource management system.	
d. \	What is hashing? How is it applied to maintain integrity of message in cloud	
	omputing?	
v	omp www.8.	
4 E	xplain any two of the following architectures:	12
4. E	lastic Resource Capacity Architecture.	
	edundant Storage Architecture.	
). R	edundant Storage Architecture	
. Ra	apid Provisioning Architecture.	
. St	orage Workload Management Architecture.	
. At	tempt any two of the following:	12
LIC	are pags environments equipped from cloud service provider's perspective?	
Ev	plain Discuss the scalability and reliability in PaaS.	
Di	scuss the different IT resource provisioning considerations in IaaS environments	
fra	m cloud consumer's perspective.	
110	ost management is often centered around the lifecycle phases of cloud services"	
Dis	scuss.	
Ex	plain the service scalability metrics.	

4.

b. c. ₫.

5.

b.

c.

d.

[Total Marks: 60