Enrollment No:	Exam Seat No:	
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C. U. SHAH UNIVERSITY Summer Examination-2017

Subject Name: Advanced Computing

Subject Code: 4TE08ACO1 Branch: B.Tech (IT)

Semester: 8 Date: 18/04/2017 Time: 02:30 To 05:30 Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1		Attempt the following question	s:	
	a)	What are the types of Cloud service development?		
	b)	What is mean by Virtualization?		01
	c)	Define OGSA?		01
	d)	What is the use of API's in cloud services?		
	e)	List out commodity components user for building clusters.		01
	f)	List some grid computing toolkits and frameworks?		01
	g)			
h)		Which one of the following support shared nothing architecture?		01
	ŕ	(a) MPP	(b) SMP	
		(c) Distributed System	(d) Cluster	
i)	i)	• •	e task of presenting, sharing, storing and	01
	,	extracting data from users.		
		(a) Knowledge services	(b) Application services	
		(c) Information services	(d) Data services	
	j)	Which of the following is not the PaaS Provider		01
	•	(a) Google App Engine	(b) AppJet	
		(c) Qrimp	(d) Net Suite	
k)	k)	. / ~ 1	o collect, analyze and store the data and	01
,		information?	•	
		(a) Life science applications	(b) Engineering oriented applications	
			(d) Commercial applications	
1)			interconnected computers which is	01
	designed to provide an illusion of a single system to the users.			
		(a) SSI	(b) SCI	
		(c) Myrinet	(d) MPI	
	m)	` ' -	g approach that involves self-managed	01
		computer systems which require minimal human interference.		
		(a) Distributed computing	(b) Sensor network	
		(c) Autonomic computing	(d) P2P technology	
n)		Which of the following is a Cloud Type?		01
	,	(a) Public Cloud	(b) Private Cloud	
		(c) Hybrid Cloud	(d) All of the above	



Attempt any four questions from Q-2 to Q-8

Q-2		Attempt all questions Explain FLS algorithm in detail and explain resource location study. List and explain services and tools which are provided by Grid Technology to build virtual Organization?	07 07
Q-3	(a) (b)	± •	07 07
Q-4	(a) (b)	implementation. Also explain role of Virtualization.	07 07
Q-5	` '	Attempt all questions Explain in brief the key services of SSI and availability infrastructure. Define grid computing and explain the various building blocks of the grid and its Application.	07 07
Q-6	` '	Attempt all questions Explain the NIST cloud computing reference architecture Explain briefly about Web service architecture.	07 07
Q-7	(a) (b)	Attempt all questions Briefly explain the layered architecture of grid. Explain the various types of cloud computing.	07 07
Q-8		Attempt all questions Explain Amazon EC2 project with its contribution in IaaS. Write short notes on: I. Service oriented architecture II. Semantic grids	07 07

