

OR

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NARSIMHA REDDY ENGINEERING COLLEGE

UGC AUTONOMOUS INSTITUTION

Maisammaguda (V), Kompally - 500100, Secunderabad, Telangana state, India

Accredited by NBA & NAAC with 'A' Grade Approved by AICTE Permanently affiliated to JNTUH

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November/December – 2017 CLOUD COMPUTING

(Computer Science and Engineering)								
Time	e: 3 Hours	Max. Marks: 75						
Note	This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all Part B consists of 5 Units. Answer any one full question from ea carries 10 marks and may have a, b, c as sub questions.	-						
a)	PART- A Describe computational grids.	(25 Marks)	[2]					
b)	Explain any three services offered by cloud.		[3]					
c)	Explain Storage virtualization.		[2]					
d)	Explain high availability and data recovery.		[3]					
e)	Explain Open nebula.		[2]					
f)	What is lease scheduling?		[3]					
g)	What are the business benefits of cloud computing?		[2]					
h)	Explain Virtual administration in cloud.		[3]					
i)	Explain data Interoperability in cloud.		[2]					
j)	Explain software Vulnerability and Breaches in cloud.		[3]					
PART-B		(50 Marks)						
2.a) b)	Elucidate Network threats and data integrity. Briefly explain the design principles of computer clusters. [5+5] OR							
3.a)	Explain system models for distributed and cloud computing.							
b)	What are the design objectives of computer clusters?		[5+5]					
4.a)	Describe various deployment models in cloud.							
b)	Elucidate hardware virtualization.		[5+5]					
,	OR							
5.a)	Explain the functions and types of Hypervisors.							
b)	Describe the features, challenges and risks in cloud computing.		[5+5]					
6.a)	Elucidate Amazon Elastic cloud computing.							
b)	Explain the architecture of Eucalyptus.		[5+5]					
0)	OR							
7.	Explain the implementation of hybrid cloud.		[10]					
8.a)	Explain a model for federal cloud computing.							
b)	Explain the best practices to build an application on cloud.		[5+5]					

What are the External threats and Internal threats of virtualization infrastructure.

1	b)	Elucidate SLA management in cloud.	[5+5]
10).a) b)	Elicit the pros and cons of content level security. Distinguish Cloud Computing from outsourcing and provision of application services.	
11	l.	OR	[5+5] [10]
		IV B.Tech II Semester Supplementary Examinations, July/August - 2017 CLOUD COMPUTING (Common to Electronics & Communication Engineering and Computer Scient	nce &
		Engineering)	ice ca
Tin	1e: 3	hours Max. Marks: 7	70
		Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B	
1.	a) b) c) d) e) f)	PART—A (22 Marks) Explain about the Energy efficiency in Distributed computing. How virtualization can be implemented in the multi-core processors. Write a short note on Google App Engine What are the traditional features common to grids and clouds. What is Start-Time Fair query? Explain. Explain briefly about the general Parallel File System.	[4] [3] [4] [4] [3] [4]
2.	a) b)	PART-B (3x16 = 48 Marks) What are the advantages of Cloud Computing over the Internet? Explain? Give the architecture of P2P systems. What are the major categories of P2P Network families?	[8]
3.	a) b)	Explain the differences between full-virtualization and para-virtualization and give one example VMM (virtual machine monitor), that was built in each of the two categories. Write and explain about intel hardware support for virtualization of processor, memory and I/O Devices?	[8]
4.	a) b)	Explain about Resource provisioning and Platform deployment? What is SOA? Discuss with architecture how two software communicate using SOA.	[8] [8]

5. b)	,	Write and explain about programming on Amazon AWS and Microsoft Azu at are emerging cloud software environments? Explain with examples?	re? [8]	[8]
6. b)	,	Write about the scheduling algorithms for computing clouds. blain the cloud scheduling subject to deadlines?	[8]	[8]
7.	a) b)	Discuss the megastore model with an example? "blinding performance depends on removing overhead." Comment on tregarding the <i>NoSQL</i> concept	his argu	[8] iment [8]