JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, March - 2017
CLOUD COMPUTING
(Computer Science and Engineering)

Time: 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 questions in Part A.
Part B consists of 5 Units. Answer any one full question from each unit. Each question
carries 10 marks and may have a, b, c as sub questions.

Part- A (25 Marks)

1.a)	What is parallel computing?	[2]
b)	Explain the need of virtual machine?	[3]
c)	What is Virtualization?	[2]
d)	Explain the features of cloud computing?	[3]
e)	What is cloud infrastructure?	[2]
f)	Explain Leasing model?	[3]
g)	What is the need for Cloud Mashups?	[2]
h)	What are the Key Components of a Service-Level Agreement?	[3]
i)	What is organizational readiness?	[2]
j)	What is production readiness?	[3]

Part-B (50 Marks)

2.	Explain the Distributed System Models.	[10]
	OR	
3.a)	Explain virtualization of clusters.	
b)	Describe the data model for virtual machine.	[5+5]
4.a)	Give an overview of interprise cloud computing paradigm.	
b)	Explain the seven-step model of migration into a cloud.	[5+5]
	OR	
5.a)	Explain the cloud integration methodologies.	
b)	Describe the cloud supply chain(C-SC).	[5+5]
6.a)	Explain the Virtual Machine(VM) provisioning process.	
b)	Describe the life cycle of a VM within OpenNebula.	[5+5]
	OR	
7.a)	Explain the Amazon Elastic Compute Cloud (EC2).	
b)	Explain features of Cluster as a Service (CaaS).	[5+5]

8. a) Describe the model for federated cloud computing.
   b) Discuss the performance-related issues of HPC in the Cloud.   [5+5]

OR

9. a) Explain the Business Benefits of Cloud Computing.
   b) Explain the cloud best practices.   [5+5]

10. a) Explain the Organizational Readiness Self-Assessment.
    b) Describe the Lewin's Change Management Model.   [5+5]

OR

11. a) Distinguish Cloud Computing from Outsourcing and Provision of Application Services.
    b) Explain the Cloud service lifecycle.   [5+5]

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