Code No: 127BN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, November/December - 2018
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)	Write a short note on Degrees of Parallelism.	[2]
b)	Define Cloud Computing and explain the Cloud Landscape.	[3]
c)	Write a short note on IaaS.	[2]
d)	Explain .NET Service Bus with a neat diagram.	[3]
e)	Explain briefly the technologies used for data security in cloud computing.	[2]
f)	Write a short note on Preparation and Runtime Overhead created by VMs.	[3]
g)	What are the technical benefits of Cloud Computing?	[2]
h)	Write about admission control in cloud.	[3]
i)	What are the main objectives of service design.	[2]
j)	Write the strength and weakness of Information Card.	[3]

PART-B

(50 Marks)

2.a)	Write a short note on Design Objectives of Computer Clusters.	
b)	Explain briefly about Fundamental Cluster Design Issues.	[5+5]
	OR	
3.a)	Write a short note on various Implementation levels of Virtualization.	
b)	Write a short note on Physical versus Virtual Clusters.	[5+5]
4.a)	Explain the iterative Seven-Step model of Migration to Cloud with a neat diagram.	
b)	Explain the issues for enterprise applications on the cloud.	[5+5]
	OR	
5.a)	Write a short note on three major Cloud Integration Scenarios.	
b)	Explain various deployment models for Enterprise Cloud Computing.	[5+5]
6.a)	Explain with a neat diagram about Aneka Hybrid Cloud Architecture.	
b)	Write a short note on Autonomic Cloudbursts using Comet Cloud with neat sketch.	[5+5]
	OR	
7.a)	Explain how Aneka is used for Workflow Execution.	
b)	Explain the architecture of SAGA Map Reduce framework.	[5+5]

8.a) Explain with a neat diagram about a model for federated cloud computing.
  b) Draw and explain the flowchart of the SLA management in cloud. [5+5]

OR

9.a) Write a short note on Life Cycle of SLA in Cloud Computing.
  b) Write a short note on Business benefits of Cloud Computing. [5+5]

10.a) Write a short note on the CROPS Change Management Framework.
  b) Explain Cloud Service Life Cycle with a neat diagram. [5+5]

OR

11.a) Write a short note on how to assess the production readiness of a Cloud Service.
  b) Write a short note on Commercial and Business Considerations from a Cloud User's Viewpoint. [5+5]

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