Code No: 117BN

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech IV Year I Semester Examinations, November/December - 2016
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) Differentiate between parallel and distributed computing Paradigms. [2]
b) Define Virtual Machines and with neat diagrams explain VM Primitive operations. [3]
c) Define PaaS and give any application/enterprise run by using PaaS. [2]
d) Write a short note on desired features of a Cloud. [3]
e) Explain briefly Public Cloud and Infrastructure Services [2]
f) Explain Virtual Machine life cycle with a neat diagram. [3]
g) What are the benefits and obstacles for Cloud Mashups? [2]
h) Explain the applications of cloud. [3]
i) Write a short note on SLA Management [2]
j) Write a short note on the current state of the Data Security in the Cloud. [3]

PART-B

(50 Marks)

2.a) Write a short note on Performance Metrics and Scalability Analysis of Distributed systems
b) Explain the role of Fault Tolerance and System Availability in Distributed Computing System [5+5]

OR

3.a) Explain the basic Cluster Architecture with a neat diagram
b) Write a short note on Fault-Tolerant Cluster Configurations [5+5]

4.a) Explain the challenges faced by SaaS paradigm in Cloud Computing.
b) Explain the three Integration Methodologies used for cloud integration [5+5]

OR

5.a) Explain the four Enterprise Cloud Adaption Strategies using fundamental cloud drivers
b) Write a short note on Porter's five forces market model [5+5]

6.a) Explain various Migration techniques used in Virtual Machine Migration
b) Explain Aneka framework architecture with a neat diagram [5+5]

OR

7.a) Explain Comet-Cloud Architecture with a neat diagram
b) Write a short note on importance of Quality and Security in Cloud [5+5]

8.a) Write a short note on basic principles of cloud computing.
b) Explain briefly the Layers Enhancements for Federation (RESERVOIR Architecture). [5+5]

OR

9 a) Write a short note on Traditional Approach to SLA Management
b) Write a short note on the need for Cloud Mashups and various concepts of Cloud Mashups [5+5]

10.a) Explain briefly the framework to comprehend the competitive environment in Cloud Computing.
b) Write a short note on Change Management Maturity Model (CMMM) [5+5]

OR

11.a) Explain in detail the idea of "Cloud Computing and Identity" in Cloud Security.
b) Explain how Cloud Computing is different from Outsourcing and Provision of Application Services [5+5]