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 Vitual 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]

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