

Code No: 117BN

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, November/December - 2016

CLOUD COMPUTING

(Computer Science and Engineering)

Max. Marks: 75

Time: 3 Hours

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. [5]
- b) Explain the role of Fault Tolerance and System Availability in Distributed Computing System. [5]

OR

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

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

OR

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

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

OR

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