**Code: 13A05607** **R13**

B.Tech III Year II Semester (R13) Regular Examinations May/June 2016

**CLOUD COMPUTING**

(Common to CSE and IT)

Time: 3 hours Max. Marks: 70

**PART – A**

(Compulsory Question)

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1 Answer the following: (10 X 02 = 20 Marks)

(a) Mention the fundamental design issues in scalable performance.
(b) Draw the cluster architecture.
(c) What are the desirable features of cloud?
(d) Briefly describe online MQ.
(e) List the steps involved in providing VM.
(f) Define real-time migration.
(g) Give the General taxonomy for admission control mechanisms.
(h) What is meant by negotiation in SLA?
(i) List and define the three stages in Lewin's change management model.
(j) What are the various tests performed in acceptance testing phase of cloud?

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

2 What is the purpose of virtual machine? List and explain the various levels in virtual machine implementation.

**OR**

3 Give a brief note on the following computing environments:

(a) Centralized computing.
(b) Parallel computing.
(c) Distributed computing.
(d) Cloud computing.

**UNIT – II**

4 (a) Draw and explain the cloud computing stack.
(b) Classify the clouds based on deployment model.

**OR**

5 (a) Draw and explain the iterative seven step model of migration into the cloud.
(b) List and explain the transition challenges in cloud.

**UNIT – III**

6 Explain the following terms related to capacity reservation:

(a) Preparation Overhead.
(b) Runtime Overhead.
(c) Leasing Model.
(d) Lease Scheduling.

**OR**

7 Explain RVWS framework in detail.

**UNIT – IV**

8 List and explain the different phases in the SLA management.

**OR**

9 Explain the following terms related to building content delivery networks using clouds:

(a) Cloud Front.
(b) Nirvanix Storage Delivery Network.
(c) Rack space Cloud Files.
(d) Azure Storage Service.

**UNIT – V**

10 Draw and explain the cloud service life cycle.

**OR**

11 What are the five driving factors for change, encapsulated by the framework? Explain them in detail.

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**CLOUD COMPUTING**

(Common to CSE and IT)

Time: 3 hours Max. Marks: 70

**PART – A**

(Compulsory Question)

*****

1 Answer the following: (10 X 02 = 20 Marks)

(a) List the design objectives of computer cluster.
(b) Define parallel computing.
(c) Mention the benefits of cloud computing.
(d) Give a note on storage virtualization.
(e) What are the steps to provide VM?
(f) List the key motivations for autonomic cloud burst.
(g) What are the basic principles of cloud computing?
(h) Make a comparison between the classical HPC and HPC in cloud environment
(i) List the various tests performed in acceptance testing phase of cloud.
(j) Draw the CROPS framework.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

2 (a) With the help of a neat diagram, explain the cluster architecture.
(b) Explain the applications of high performance and high throughput systems.

**OR**

3 (a) Discuss the parallel and distributed programming models.
(b) Describe about levels of virtualization implementation in detail.

**UNIT – II**

4 List and explain the desirable features of cloud.

**OR**

5 (a) Discuss the seven steps model of migration into a cloud.
(b) Explain the business derivers towards a marketplace for enterprise cloud computing.

**UNIT – III**

6 With the help of neat diagram, explain the Aneka framework architecture.

**OR**

7 (a) Draw and explain the virtual machine life cycle.
(b) Write the classification of scientific applications and services in the cloud.

**UNIT – IV**

8 Briefly explain the best practices in architecting cloud applications in the AWS cloud.

**OR**

9 (a) Discuss about SLA management in cloud.
(b) Illustrate the business benefits of cloud computing.

**UNIT – V**

10 List the five driving factors for change encapsulated by the framework? Explain them in detail.

**OR**

11 (a) Explain the data privacy and security issues in cloud computing.
(b) With the help of neat diagram, explain the cloud service life cycle

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