

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)

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.
