

B.Tech III Year II Semester (R13) Regular & Supplementary Examinations May/June 2017

**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) 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 drivers 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