

Code: 13A05607

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)

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
