

Code No: 126EV

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, October/November - 2016****CLOUD COMPUTING****(Information Technology)****Time: 3 hours****Max. Marks: 75****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) What is the importance of a cluster? [2]
- b) What is meant by virtualization? [3]
- c) What are challenges to face with respect to cloud? [2]
- d) What is meant by enterprise cloud? [3]
- e) What is the role of virtual machine in cloud? [2]
- f) Differentiate between private and public cloud. [3]
- g) What is SLA management in cloud computing? [2]
- h) How to build a reliable cloud? [3]
- i) How to achieve security in cloud? [2]
- j) List the cloud contracting models. [3]

**PART - B****(50 Marks)**

2. Explain the role of computer clusters for achieving parallelism in cloud. [10]
- OR**
3. What is meant by virtualization of cluster and data centers? Explain in detail. [10]
4. With a neat diagram, explain the cloud infrastructure management. [10]
- OR**
5. List and explain the various relevant deployment models for enterprise cloud. [10]
- 6.a) Draw and explain the architecture of comet cloud.
- b) How can a cloud be useful for workflow execution? [5+5]
- OR**
- 7.a) List and explain the applications of cloud.
- b) What is the importance of map reduce programming model? [5+5]
8. List and explain the types of SLA. [10]
- OR**
- 9.a) Differentiate between classical HPC and HPC in cloud.
- b) What are the services HPC provides to cloud? [5+5]

10. What are the technical benefits of cloud computing? [10]

**OR**

11.a) What is the importance of decoupling?

b) How can you design a secure application for cloud? [5+5]

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