

B.E. sem-VII (CBSGS) Info. Tech- Cloud Computing

11/12/16

Q.P. Code : 800302

(3 Hours)

Total Marks : 80

Note : 1) Question no 1 is compulsory, solve any 3 questions from remaining 5 questions.

2) Assume Suitable data whenever necessary.

3) Figures in the right indicate full marks.

1. a) What is the need of virtualization? Define Server virtualization, Application virtualization, Presentation Virtualization. 10
- b) Compare the REST and REST paradigms in the context of programmatic communication between applications deployed on different cloud providers, or between cloud applications and those deployed in-house. 10
2. a) Explain conceptual representation of Eucalyptus cloud. Explain in brief the components within the Eucalyptus system. 10
- b) What do you mean by Parallel and Distributed Programming Paradigms in detail? Explain about Hadoop Library from Apache in detail? 10
3. a) What is Data Migration and which type of best practices should be used to protect data during a Migration. 10
- b) Discuss with example how to write JOIN operation using Map Reduce model. 10
4. a) How is Amazon DynamoDB different from MYSQL database? Explain with respect to database design principles. 5
- b) Compare the following 10
  - i) Bare-Metal hypervisor, Hosted hypervisor
  - ii) Grid Computing, Cloud Computing.
- c) What are 'security groups' & 'key pairs'? What is their significance in Amazon AWS cloud computing environment? 5
5. a) How does cloud architecture overcome the difficulties faced by traditional architecture? 10
- What are the three differences that separate out cloud architecture from the traditional one?
- b) Explain the two fundamental functions, identity management and access control, which are required for secure cloud computing. 10
6. a) What is cloud computing? Enlist and explain three service models, and four deployment models of cloud computing. 10
- b) Write short notes on 10
  - i) Authorization management in cloud computing
  - ii) Challenges in, mobile at cloud shields.