

I-T/VII/C.C/CBGS-1 01.12.2016

## Cloud Computing.

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? What are the three differences that separate out cloud architecture from the tradition one? **10**
- 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.

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