

Roll No. ....

Total Pages : 3

**BT-8/M-20**

**38159**

**CLOUD COMPUTING (E-IV)**

Paper–CSE-420-N

Time Allowed : 3 Hours]

[Maximum Marks : 75

**Note** : Attempt **five** questions in all, selecting at least **one** question from each Unit. All questions carry equal marks.

**UNIT-I**

1. (a) Make the systematic differences among the grid computing environment, distributed computing environment and their related interfaces mechanisms. 8
- (b) What pros and cons of cloud computing exist in comparisons of cluster and utility computing? 7
2. (a) Discuss the principles of security in cloud computing. What are the various business driver for adopting cloud computing in a secure way. 10
- (b) Difference between elasticity and scalability in cloud computing. 5

**38159/K/1019**

**P. T. O.**

## UNIT-II

3. (a) Explain in detail about the Software as a Services (SaaS). Mention out the advantages and drawbacks of SaaS. What are the various service providers of SaaS? 8
- (b) Write down the characteristics of community cloud, public cloud and hybrid cloud. 7
4. (a) How many types of development models are used in cloud computing environment? Which one is best and why? 8
- (b) What is the role of resource scheduler in the Infrastructure as a Service (IaaS) layer cloud interfaces? 7

## UNIT-III

5. (a) What is web-service? Differentiate between SOAP and REST web-services which are used in cloud computing. 8
- (b) Write the technical notes on the Service Level Agreements (SLAs) and Scalability. 7
6. (a) Explain in detail about the working architecture of Amazon EC2. What types of services does it provide for the proper management of different resources in cloud computing environment? 10

- (b) What is storage virtualization in Cloud computing? Enlist pitfalls of virtualization. 5

#### **UNIT-IV**

7. (a) Discuss in detail the cloud security reference model and explain, how cloud security is integrated into the design of the efficient and reliable applications interfaces. 8
- (b) Write different types of internal security breaches in cloud computing. Also, explain the steps to reduce cloud security breaches. 7
8. (a) Explain in technical differences and their implementation details among network level security and application level security in cloud computing. 8
- (b) Explain the concept of Data security and Storage management in cloud computing. 7