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

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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