Roll' No.

Total Pages: 3

BT-8/M-24

48357

CLOUD COMPUTING

Paper-PE-IT-A404A

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

- (a) By taking some practical examples, discuss and validate the basic role of Business drivers for adopting cloud computing.
 - (b) Differentiate between Grid computing and Distributed computing. Justify the roles of using the open standards in the Cloud Computing Industry.
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- 2. (a) With the help of its structural diagram, explain the NIST model of Cloud computing environment. Also, highlights its pros and cons.
 - (b) Name one popular cloud service platform provider that offers a range of Cloud computing application services and briefly describe its core services.
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UNIT-II

- 3. (a) Explain, in simple terms, the role of Cloud computing protocols, Community cloud and Hybrid cloud by taking some real time practical examples.
 - (b) What are the basic benefits of using Cloud computing stack? Substantiate the role of every stack layer in cloud computing.7
- (a) Discuss the architectural models and their design mock-ups of Cloud Computing Architecture and Traditional Client-server Computing Architecture.
 - (b) Explain the various vital characteristic of Infrastructure as a Service (IaaS) model and Software as a Service (SaaS) model.

UNIT-III

- 5. (a) Could you provide a brief overview of a Real-world use case where an organization successfully implemented Microsoft Azure for its cloud computing needs? Highlight the key benefits of using this specialized Platform service.
 - (b) Explain the role of large scale processing for data which can be effectively used for Cloud computing?

- 6. (a) Identify the purpose of using Scalability. How does scalability play a key role in cloud services, and why is it beneficial for Businesses using Cloud computing?
 - (b) How does Cloud computing accounting and billing typically work? Also, discuss the various economic aspects of scaling in Cloud computing.

UNIT-IV

- 7. (a) Explain and justify the roles of the following: 8
 - (i) Host Level Security
 - (ii) Application Level Security
 - (iii) Network Level Security.
 - (b) Explain common Data privacy and Security concerns that organizations should address when implementing cloud computing services, and why is it important to alleviate these concerns?
- 8. (a) What is authentication in Cloud security, and why is it a critical component for ensuring the security of cloud-based systems and data?*
 - (b) Identify the major jurisdictional issues which are raised by data location in cloud security? 7