

Roll No.

Total Pages : 3

BT-8/D-23

48245**CLOUD COMPUTING**

Paper-PE-CS-A402A

Time : Three 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) How do open standards play a crucial role in ensuring interoperability and flexibility in cloud computing? Provide one example of an open standard commonly used in the cloud computing industry. 08
- (b) Name one popular cloud service provider that offers a range of cloud computing services and briefly describe one of their core services. 07
2. (a) By taking some real time practical examples, compare and contrast between cluster computing and grid computing. 08
- (b) What are two benefits and two drawbacks of adopting cloud computing services for personal use or small businesses? 07

UNIT-II

3. (a) Briefly explain the differences between public, private, and hybrid cloud models, and provide one scenario where a business might prefer using a hybrid cloud? 08
- (b) What are the main differences between cloud computing architecture and traditional client-server computing architecture? Provide one advantage of each approach. 07
4. (a) Explain, in simple terms, how cloud computing works and why it is considered a scalable and cost-effective technology solution? 08
- (b) What are the essential characteristics of Platform as a Service (PaaS) model and Infrastructure as a Service (IaaS)? 07

UNIT-III

5. (a) What is the purpose of a Service Level Agreement (SLA) in cloud computing, and why is it important for both cloud providers and cloud consumers? 08
- (b) How does cloud computing billing typically work, and why is accurate accounting important for organizations using cloud services? 07
6. (a) Could you provide a brief overview of a real-world use case or example where an organization successfully implemented Eucalyptus for their cloud computing needs? Highlight one key benefit they achieved. 08

- (b) Define scalability. How does scalability play a key role in cloud services, and why is it beneficial for businesses using cloud computing? 07

UNIT-IV

7. (a) Identify the prime purpose of using data security and storage in cloud computing, and why is it important for cloud-based secure applications and data? 08
- (b) What is authentication in cloud security, and why is it a critical component for ensuring the security of cloud-based systems and data? 07
8. (a) What are some common data privacy and security concerns that organizations should address when adopting cloud computing services, and why is it important to mitigate these concerns? 08
- (b) Identify the major concerns that may arise due to division and replication of data in cloud computing for optimal performance and security. 07

EXAMKIT