

Sr. No. of Question Paper	:13357
Unique Paper Code	: 2344000028
Name of the Paper	: Cloud Computing
Name of the Course:	: Generic Elective – Computer Science
Semester:	: VII
Duration	: 3 hours
Maximum Marks	: 90

Instructions for Candidates:

1. Write your Roll No. on the top immediately upon receipt of this question paper.
2. The first question in **Section A** is compulsory; attempt any **four** questions from **Section B**.
3. Parts of a question must be answered together.

Section – A

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| 1. a) Define Client–Server architecture | 3 |
| b) What is Peer-to-Peer (P2P) computing? Explain with suitable example | 3 |
| c) What is meant by elasticity in cloud computing? | 3 |
| d) What is a hypervisor? Name its types | 3 |
| e) What is virtualization? List two benefits of virtualization | 3 |
| f) Name any two cloud platforms and one key feature of each | 3 |
| g) What is meant by pay-as-you-go pricing model in cloud computing? | 3 |
| h) List any three common cloud security threats | 3 |
| i) List any three factors affecting cloud cost | 3 |
| j) What is meant by on-demand self-service in cloud computing? | 3 |

Section – B

2. a) Consider a scenario where a company requires to host its own virtual machines and storage, however, does not want to maintain physical hardware. Suggest a solution with respect to cloud computing highlighting its advantages and challenges. 8
- b) What is utility-oriented computing? Elaborate on how utility-oriented computing contributes towards resource scalability and flexibility? 7
3. a) Compare and contrast parallel and distributed computing. Discuss the components of a distributed system. 8
- b) What is data-intensive computing? Examine the characteristics and challenges of data-intensive computations. 7
4. a) List the four unique characteristics of an ideal cloud computing model. Discuss the driving factors that motivate companies to become cloud service providers. 8
- b) Discuss Software-as-a-Service (SaaS) cloud computing service model. What are the ways in which SaaS applications can be implemented in everyday life? Explain with suitable examples. 7
5. a) Examine the obstacles faced during deployment of cloud computing model. Discuss the challenges faced with respect to security and data privacy. 8
- b) Why is it important to secure a cloud computing environment? Discuss the factors to be accounted for in order to evaluate the risks while using cloud computing solutions. 7
6. a) Discuss the three types of classification for Platform-as-a-Service (PaaS) implementations. List any two examples/applications in each type. 8
- b) What is a Service Level Agreement (SLA)? List any four parameters that must be specified in SLAs. 7
7. a) Differentiate between cloud service models and deployment models. Explain how IaaS is deployed in public and private cloud environments with examples. 8
- b) Explain the advantages of cloud computing for organizations. Also explain limitations of cloud computing. 7