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Vijaya Vittala Institute of Technology

**DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**

**INTERNAL ASSESSMENT – 1**

**DATE & TIME: 19-March-2025**

**BRANCH & SEMESTER: CSE 6th SEMESTER**

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| Q.No | QUESTIONS | MARKS | CO | RBT |
| PART A | | | | |
| 1 | Discuss the future trends in cloud computing, including the role of AI, machine learning, and quantum computing. 7 | 7 | CO-1 | L1 |
| 1b | Discuss the impact of edge computing on cloud architectures and its potential applications. 7 | 7 | CO-1 | L1 |
| 1c | Explain the concept of Infrastructure as Code (IaC) and its advantages for cloud deployment and management. 6 | 6 | CO-1 | L1 |
| 2 | Discuss the compliance and regulatory considerations for businesses using cloud services, particularly in data-sensitive industries. 7 | 7 | CO-1 | L1 |
| 2b | Discuss the importance of cloud cost optimization and describe strategies for managing cloud spending effectively. 7 | 7 | CO-1 | L1 |
| 2c | Describe the benefits of using cloud-based databases compared to traditional on-premises databases. 6 | 6 | CO-1 | L1 |
| PART B | | | | |
| 3 | Discuss the importance of cloud cost optimization and describe strategies for managing cloud spending effectively. 7 | 7 | CO-1 | L1 |
| 3b | Discuss the compliance and regulatory considerations for businesses using cloud services, particularly in data-sensitive industries. 7 | 7 | CO-1 | L1 |
| 3c | Describe the benefits of using cloud-based databases compared to traditional on-premises databases. 6 | 6 | CO-1 | L1 |
| 4 | What is cloud orchestration, and why is it essential for managing complex cloud environments? 5 | 5 | CO-1 | L1 |
| 4b | Explain the concept of cloud monitoring and its importance for maintaining cloud service availability. 5 | 5 | CO-1 | L1 |
| 4c | What is a container, and how does it differ from a virtual machine in the context of cloud computing? 5 | 5 | CO-1 | L1 |
| 4d | Define cloud storage and explain the different types of cloud storage services available. 5 | 5 | CO-1 | L1 |
| 4e | What are the key security concerns associated with cloud computing, and how can they be mitigated? 5 | 5 | CO-1 | L1 |