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| **SESSION** | **APRIL2025** |
| **PROGRAM** | **BACHELOR OF COMPUTER APPLICATIONS (BCA)** |
| **SEMESTER** | **VI** |
| **COURSE CODE & NAME** | **DCA3243 CLOUD COMPUTING** |
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**Set-I**

**Q1. Explain the fundamental concepts of cloud computing and how they differ from traditional computing paradigms.**

**Ans 1.**

**Cloud Computing**

Cloud computing refers to the delivery of computing services such as servers, storage, databases, networking, software, and analytics over the internet—commonly referred to as "the cloud." Instead of owning and maintaining physical hardware and infrastructure, organizations and individuals can access these services on-demand, paying only for what they use. Cloud computing has emerged as a powerful solution for scalable, flexible, and cost-effective IT infrastructure

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**Q2. Compare and contrast the three cloud service models—SaaS, PaaS, and IaaS—with suitable examples. 10**

**Ans 2.**

**Overview of Cloud Service Models**

Cloud computing is categorized into three primary service models: Software as a Service (SaaS), Platform as a Service (PaaS), and Infrastructure as a Service (IaaS). These models represent different levels of abstraction and service delivery, each tailored to specific user needs. The distinction among them lies in how much control the user has and what components the cloud provider manages. Understanding these models is essential for selecting the right cloud solution

**Q3. What are the key strategic decisions involved in adopting cloud computing in an enterprise? Discuss with examples. 10**

**Ans 3.**

**Key Strategic Decisions Involved in Adopting Cloud Computing in an Enterprise**

**Strategic Cloud Adoption**

Adopting cloud computing in an enterprise involves more than just a technological shift; it is a strategic decision that impacts the organization’s operations, cost structure, and long-term competitiveness. Enterprises must evaluate several key dimensions such as cost, scalability, data governance, integration, and business continuity before migrating to the cloud. The decision-making process requires cross-functional collaboration between IT, finance, legal, and executive

**Set-II**

**Q4. How does cloud computing contribute to the cost-effective monitoring and management of IT infrastructure? 10**

**Ans 4.**

**Infrastructure Monitoring and Management**

Cloud computing revolutionizes the way enterprises monitor and manage their IT infrastructure by introducing automation, centralization, and scalability. Traditional infrastructure management often involves complex and costly on-premises solutions that require significant capital investment, maintenance, and manual intervention. Cloud-based infrastructure management, on the other hand, enables organizations to track performance, ensure availability, and maintain

**Q5. How do tools facilitate cloud access, and what factors should be considered when choosing them for different user needs? 10**

**Ans 5.**

**Cloud Access Tools**

Cloud access tools serve as bridges between users and cloud environments, enabling seamless interaction with infrastructure, platforms, and services hosted in the cloud. These tools may include command-line interfaces (CLI), software development kits (SDKs), web portals, and third-party management software. They play a pivotal role in simplifying operations like resource provisioning, data migration, monitoring, security, and application deployment. Whether for developers, system administrators, or non-technical users, these tools streamline access, enhance

**Q6. What are the main cloud computing standards, and why are they essential for interoperability and service reliability? 10**

**Ans 6.**

**Cloud Computing Standards**

Cloud computing standards refer to the set of protocols, guidelines, and specifications that ensure compatibility, data integrity, security, and communication between various cloud platforms and services. These standards are essential for building an open, reliable, and interoperable cloud environment. Without standardized practices, organizations face difficulties in migrating applications, integrating services, and maintaining consistent security and performance across different providers. Adopting these standards also enhances trust and service-level guarantees for