**Cloud Computing**

**September 2023 Examination**

**1. Describe following Challenges of Cloud Adoption.**

**• Educating Staff**

**• Improving Processes**

**• Performance**

**• Reliability**

**• Security and Privacy**

**• Bandwidth**

**Ans:**

**Introduction:**

Cloud computing has converted the IT panorama, supplying businesses with several benefits, which include price, financial savings, scalability, and versatility. Cloud services enable corporations to access and deploy assets on-call over the internet, eliminating the need for massive on-premises infrastructure. No matter these benefits, the adventure closer to cloud adoption is challenging. This essay discusses six prominent demanding situations businesses face while transitioning to the cloud: instructing personnel, improving procedures, performance, Reliability, safety and privateness, and Bandwidth.

**Educating Staff:**

One of the number one challenges of cloud adoption is teaching staff the intricacies of cloud

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**2. What is virtualization? Describe following types of virtualizations.**

**• Data virtualization**

**• Desktop virtualization**

**• Server virtualization**

**• Operating system virtualization**

**• Network functions virtualization**

**• Application virtualization (10 Marks)**

**Ans :**

**Introduction:**

Virtualization is an essential generation that has revolutionized modern computing systems. It includes developing virtual versions of hardware, software program, networks, or storage resources, allowing multiple times to run independently on a single bodily machine. The primary objective of Virtualization is to beautify resource usage, enhance scalability, increase flexibility, and simplify IT infrastructure management. Virtualization has determined programs across various domains, which include information centers, cloud computing, and

**3. a. Explain Single Sign on authentication method. (5 Marks)**

**Ans:**

**Introduction:**

Single sign-on (SSO) is an authentication technique that simplifies the consumer login across multiple applications or offerings. It permits customers to get admission to various structures and resources with an unmarried login credential, eliminating the need to remember more than one username and password for each service. SSO complements consumer revel,

**b. What are the benefits of multitenancy? (5 Marks)**

**Ans ;**

**Introduction:**

Multitenancy is a software program architecture idea that allows a single software program application to serve multiple tenants or users even as retaining their data and configuration logically remoted. In different words, it will enable various clients or companies to apply the equal utility example. However, each tenant perceives the software as strolling independently. This approach has recently received popularity due to its numerous benefits,