CSE423 – Unit 3 and 4

Scenario Based Subjective Questions

[https://github.com/sauravhathi/lpu-cse#study-materials](https://github.com/sauravhathi/lpu-cse" \l "study-materials)

**Q1.** You are a cloud developer working for an e-commerce company that wants to migrate its website and database to the cloud. What are the steps that you would follow to perform the **migration**? What are the factors that you would consider choosing the best cloud service provider and model for your company? How would you ensure the security, availability, and scalability of your cloud resources and services?

**Q2.** You are a cloud administrator responsible for managing a hybrid cloud environment that consists of a private cloud and a public cloud. How would you monitor and optimize the performance and cost of your hybrid cloud? What are the tools and techniques that you would use to **achieve cloud bursting, load balancing, and backup** in your hybrid cloud? How would you handle any failures or issues that may occur in your hybrid cloud?

**Q3.** You are a cloud user who wants to access various cloud applications and services from your mobile device. How would you connect to the cloud and authenticate yourself? What are the benefits and challenges of using mobile cloud computing? How would you deal with the limitations of your mobile device such as battery life, storage capacity, or network connectivity?

**Q4.** You are a cloud architect who wants to design a cloud computing architecture for a social media platform that has millions of users and generates huge amounts of data. What are the components and layers that you would include in your cloud computing architecture? How would you ensure the scalability, availability, security, and performance of your cloud computing architecture? How would you use **service-oriented architecture (SOA), microservices, or serverless architectures** in your cloud computing architecture?

**Q5.** You are a cloud engineer who wants to implement a cloud content delivery network (CDN) service for a video streaming website that has global audience and diverse content. What are the steps that you would follow to implement the cloud CDN service? How would you use **caching**, **edge servers,** or **multi-CDN** strategies to enhance the delivery of content over the internet? How would you use meta CDN to optimize content delivery across different regions, networks, or devices?

**Q6.** You are a cloud analyst who wants to perform cost estimation and optimization for a cloud project that involves using various cloud resources and services. What are the methods and models that you would use to estimate the cost of your cloud project? What are the factors and metrics that affect the cost of your cloud project? How would you use **cost optimization technique**s such as **pay-per-use**, resource pooling, or **automation** to reduce the cost of your cloud project?