Smart Question Paper

Subject: Cloud Computing

# Generated Questions

## Unit 1: Distributed System Models and Enabling Technologies:

1. What is cloud computing and how does it differ from traditional computing models?  
2. Name three popular cloud computing service models and briefly explain each one.  
3. How does virtualization play a key role in enabling the flexibility and scalability of cloud computing services?

## Unit 2: Cloud Programming and Software Environments

1. Explain how you would use cloud computing services to optimize resource utilization and reduce costs for a large-scale web application deployment.  
  
2. Develop a sample code snippet using a cloud platform's API to programmatically create a new virtual machine instance for a specific workload.  
  
3. Describe the benefits and challenges of using serverless computing in a cloud environment, and provide an example scenario where serverless architecture would be advantageous.

## Unit 3: Cloud Platform Architecture over Virtualized Datacenters

1. How does cloud platform architecture facilitate the efficient utilization of virtualized datacenters? Provide specific examples to support your analysis.  
  
2. Analyze the role of scalability in cloud computing. Discuss how the architecture of cloud platforms over virtualized datacenters enables seamless scaling of resources to meet varying demands.  
  
3. Compare and contrast the architectural differences between public, private, and hybrid cloud platforms in virtualized datacenters. How do these distinctions impact performance, security, and cost efficiency?

# Assessment Blueprint

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| Unit | Bloom Level | Marks | COs | POs |
| Unit 1 | Remember | 5 | CO1 | PO1 |
| Unit 2 | Apply | 5 | CO2 | PO3 |
| Unit 3 | Analyze | 5 | CO2 | PO3 |