

Model Question Paper

Duration: 3 Hours

Maximum Marks: 100

1. Section A - Short Questions (5 marks each)

1. 1. Define Cloud Computing and explain its evolution. (5 marks)
2. 2. List the key characteristics and benefits of Cloud Computing. (5 marks)
3. 3. Describe the different types of Cloud Computing. (5 marks)
4. 4. Explain the three main Cloud Service Models. (5 marks)
5. 5. What are Cloud Architecture Components and how does Virtualization play a role in Cloud Computing? (5 marks)
6. 6. List the key Cloud Platforms and explain the concept of Virtual Machines in Cloud Computing. (5 marks)

2. Section B - Long Questions (10 marks each)

1. 1. Explain the different Cloud Deployment Models with a comparison of their features and benefits. (10 marks)
2. 2. Discuss the various Compute Services and Storage Services offered in Cloud Computing along with their use-cases. (10 marks)
3. 3. Explain Networking in Cloud Computing, focusing on VPC and Load Balancers. Also, discuss the role of Cloud Management Tools. (10 marks)
4. 4. Describe Cloud Security Challenges and how Data Protection, Encryption, Identity and Access Management (IAM), and Compliance and Regulatory Issues are addressed in Cloud Computing. (10 marks)
5. 5. Discuss the applications of Cloud Computing in IoT, Big Data, Machine Learning, and AI. Also, provide case studies of successful Cloud Implementations. (10 marks)