24225

3 Hours / 70 Marks   Seat No.

Instructions : (1) All Questions are *compulsory.*

(2) Answer each next main Question on a new page.

(3) Illustrate your answers with neat sketches wherever necessary.

(4) Assume suitable data, if necessary.

	Marks

1. **Attempt any FIVE of the following :**   **10**

(a) Define Cloud Computing.

(b) List technologies used in Virtualization.

(c) List key components of cloud storage architecture.

(d) Define Hypervisor.

(e) Define containerization.

(f) State different DevOps principles (any four).

(g) Define Cloud IAM.

2. **Attempt any FOUR of the following :**   **12**

(a) Differentiate between AWS and Microsoft Azure. (Write any three points)

(b) Draw and explain Cloud database architecture.

(c) State advantages and disadvantages of Virtualization. (any two each)

(d) Explain cloud security architecture.

(e) Explain cloud network security threats.

3. **Attempt any FOUR of the following :** 12

(a) Differentiate between PaaS and SaaS. (Write any 3 points.)

(b) Explain characteristics of Virtualized Environment.

(c) Explain which factors are considered for configuring Cloud Virtual Machine.

(d) Describe different types of cloud application security control.

(e) Differentiate between Serverless Computing and Cloud Computing. (Write any 3 points)

4. **Attempt any THREE of the following :** 12

(a) Explain cloud computing architecture.

(b) Discuss cloud identity and access management policies.

(c) Explain cloud cost optimization.

(d) List and explain the key aspects of cloud service management.

(e) List & explain the types of Cloud APIs. (Explain any two)

5. **Attempt any THREE of the following :** 12

(a) Explain CVM (Cloud Virtual Machine) Architecture.

(b) Explain types of virtualization in detail.

(c) Explain Cloud data backup and Recovery.

(d) Describe benefits of DevOps and Cloud Computing.

(e) Describe DoS attack in detail.

6. **Attempt any TWO of the following :** 12

(a) Write generic steps to build an virtual machine using VMWare.

(b) Describe the key components of cloud security architecture.

(c) Differentiate between Edge computing and Cloud computing. (Write any 6 points)

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