12425

3 Hours / 70 Marks   Seat No.

Instructions :
(1) All Questions are *compulsory.*
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) Preferably write answers in sequential order.

Marks

1. Attempt any FIVE :   **10**

(a) State any two characteristics of cloud computing.

(b) Define full virtualization.

(c) List out key aspects of cloud service management.

(d) List advantages of virtualization.

(e) List out network security threats.

(f) State benefits of serverless computing.

(g) List challenges of edge computing.

2. Attempt any FOUR :   **12**

(a) Explain cloud computing architecture.

(b) Show steps to configure virtual machine.

(c) Explain cloud IAM policies.

    (d)   Explain cloud security compliance and regulation.

    (e)   Explain principles of DevOps.

3.   **Attempt any FOUR :**   **12**

    (a)   Explain software as service model (SaaS).

    (b)   Explain virtual storage concept.

    (c)   Explain cloud database.

    (d)   Explain role of cloud API in cloud computing.

    (e)   Explain data backup & recovery on cloud.

4.   **Attempt any THREE :**   **12**

    (a)   Describe need of virtualization in cloud computing.

    (b)   Compare public & private cloud deployment model.

    (c)   Explain containerization concept of virtualization.

    (d)   Compare serverless computing with traditional server based architecture.

5.   **Attempt any THREE :**   **12**

    (a)   List and explain components of cloud storage architecture.

    (b)   Write difference between edge computing and cloud computing.

    (c)   How provide security to access data on cloud ?

    (d)   List and explain cloud application security controls.

6.   **Attempt any TWO :**   **12**

    (a)   Write the steps to create & configure virtual machine.

    (b)   How IAM play important role on cloud ?

    (c)   Write steps to guide new user on cloud to protect data.

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