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22232

3 Hours / 70 Marks

Seat No.

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- 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) Figures to the right indicate full marks.
  - (5) Assume suitable data, if necessary.

**Marks**

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

**10**

- (a) List benefits of cloud computing.
- (b) Enlist different types of cloud file systems.
- (c) List steps in life cycle of SLA.
- (d) Enlist any 4 cloud platform.
- (e) Explain Paas.
- (f) State any two benefits of virtual data center.
- (g) Enlist different types of SLA.

**2. Attempt any THREE of the following :**

**12**

- (a) List and explain any two advantages of storage virtualization.
- (b) Draw & explain storage system architecture.
- (c) Explain federated cloud computing.
- (d) Explain content level security in cloud.



- 3. Attempt any THREE of the following :** **12**
- (a) With neat diagram explain architecture of cloud computing.
  - (b) Explain Google File System (GFS).
  - (c) Define Service Level Agreement (SLA). Compare different types of SLA.
  - (d) Explain working of Amazon EC2 & S3 cloud platform.
- 4. Attempt any THREE :** **12**
- (a) Differentiate between VMWare and KVM.
  - (b) Explain :
    - (i) Technical Risks
    - (ii) Legal Risks
  - (c) Differentiate between open stack & Eucalyptus.
  - (d) Describe disadvantages of Virtualisation.
  - (e) List any four applications of cloud with IOT.
- 5. Attempt any TWO :** **6 × 2 = 12**
- (a) Differentiate between block level storage virtualisation and file level storage virtualisation (any six points).
  - (b) Explain Periodic resource optimisation and Ab-initio Resource assignment.
  - (c) Explain digital identity and access management in cloud security.
- 6. Attempt any TWO :** **6 × 2 = 12**
- (a) With neat diagram explain virtualize data center architecture and also explain key elements needed to design VDC.
  - (b) Explain appropriate example for the techniques used in cloud computing for managing IT resources.
  - (c) Explain IoT technologies used for home automation and also explain relation of home automation with cloud computing.
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