

22385

12425

03 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.  
(6) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

**Marks**

1. **Attempt any FIVE of the following :** **10**
- a) State any two advantages of cloud computing.
  - b) Differentiate between hot cloning and cold cloning (any two points).
  - c) Define host machine and virtual machine.
  - d) State the role of hypervisor in server virtualization.
  - e) State the resources of cloud computing.
  - f) Compare SaaS and PaaS (any two points).
  - g) State two features of cloud IDE.

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- 2. Attempt any THREE of the following :** **12**
- a) State the need for virtualization of memory.
  - b) Explain server virtualization with diagram.
  - c) Draw cloud computing architecture.
  - d) Explain any four features of google cloud.
- 3. Attempt any THREE of the following :** **12**
- a) Draw the reference model of virtualization.
  - b) State any four advantages of desktop virtualization.
  - c) Explain any one cloud computing deployment model.
  - d) Explain advantages of NOSQL over DBMS (any four points).
- 4. Attempt any THREE of the following :** **12**
- a) Explain impact of virtualization with respect to cost, manageability, support and disaster recovery.
  - b) Explain application virtualization architecture.
  - c) Explain SAN with Advantages and Disadvantages.
  - d) Compare private cloud and public cloud (any four points).
  - e) Explain any one cloud computing technology.
- 5. Attempt any TWO of the following :** **12**
- a) Draw and explain the seven step model of migration into a cloud.
  - b) Compare traditional physical data centers and virtual data centers with respect to following points :
    - i) Server downtime
    - ii) CPU utilization
    - iii) Disaster recover
    - iv) Data center migration
    - v) Performance
    - vi) Cost
  - c) Draw and explain the architecture of server virtualization.

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

**12**

- a) Differentiate between parallel and distributed computing.  
(any six points)
  - b) Describe the cloud computing service models with relevant examples.
  - c) Explain the step by step procedure to connect virtual machine to MYSQL on cloud.
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