

# 22385

**23124**

**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.
  - (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 the resources that can be optimized in cloud computing.
  - b) Define :-
    - i) Virtualization
    - ii) Data center
  - c) Define server Virtualization.
  - d) Enlist two drawbacks of traditional data center.
  - e) Define mobile virtualization?
  - f) State any two advantages of storage virtualization.
  - g) Compare Saas and Paas. (Any two points)

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- 2. Attempt any FOUR of the following:** **12**
- a) Compare Parallel and distributed computing. (Any three points)
  - b) Enlist the characteristics of virtualized environment.
  - c) Explain following Desktop Virtualization.
    - i) Server Hosted
    - ii) Client Hosted
  - d) Explain :-
    - i) Instances
    - ii) Spot Instances
    - iii) Reserved Instances.
  - e) Draw the architecture of Hadoop distributed file system.
- 3. Attempt any FOUR of the following:** **12**
- a) Draw virtualization reference model.
  - b) Describe the principle of working of virtual machine.
  - c) Explain benefits of application level virtualization
  - d) State any four infrastructural constraints of cloud computing.
  - e) Explain any three features of Google file system.
- 4. Attempt any THREE of the following:** **12**
- a) State the need of memory virtualization.
  - b) Define :-
    - i) VLAN
    - ii) VPN
    - iii) Programmable Network
    - iv) Overlay Network.
  - c) Explain cloud service life cycle with suitable diagram.
  - d) Explain any four features of Dynamo DB.
  - e) State any four characteristics of cloud computing.

- 5. Attempt any THREE of the following:** **12**
- a) Explain following terms with a diagram –
    - i) Host machine
    - ii) Virtual machine
    - iii) Virtualization software.
  - b) Describe various types of storage virtualization.
  - c) Explain private deployment model with suitable diagram.
  - d) Explain advantages of NoSQL over DBMS.
  - e) Define hypervisor with it's types? Explain the role of hypervisor.
- 6. Attempt any TWO of the following:** **12**
- a) Draw and explain the seven-step model of migration into a cloud.
  - b) Explain the architecture of cloud computing.
  - c) Give the step by step procedure to connect virtual machine to MySQL on cloud.
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