

22385

22223

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) Define:-
    - i) Virtualization software
    - ii) Virtual machine
  - b) Differentiate between hot cloning and cold cloning (any two points)
  - c) What is demand provisioning?
  - d) What is programmable network?
  - e) What is cloud based IDE?
  - f) State the resources that can be optimized in cloud computing?
  - g) What is Rapid Elasticity?

P.T.O.

- 2. Attempt any FOUR of the following:** **12**
- a) Draw a virtualization reference model.
  - b) What is desktop virtualization? Explain one of its types.
  - c) Explain platform as service with suitable diagram.
  - d) Explain any three features of Vm-ware.
  - e) Explain any three features of google file system.
- 3. Attempt any FOUR of the following:** **12**
- a) Write disadvantages of traditional data centre (any four points)
  - b) Explain following types of storage virtualization
    - i) Direct attached
    - ii) Network attached
    - iii) SAN
  - c) Explain SAAS with suitable example.
  - d) Explain two types of virtualization architecture.
  - e) State three features of virtualization used on mobile device.

4. Attempt any THREE of the following:

12

- Write any two advantages and disadvantages of virtualization.
- What is server virtualization? Write its benefits (any three)
- Explain benefits of cloud computing (any four)
- What is network virtualization? Explain VPN and VLAN.
- Identify the given block diagram. Explain the various components.

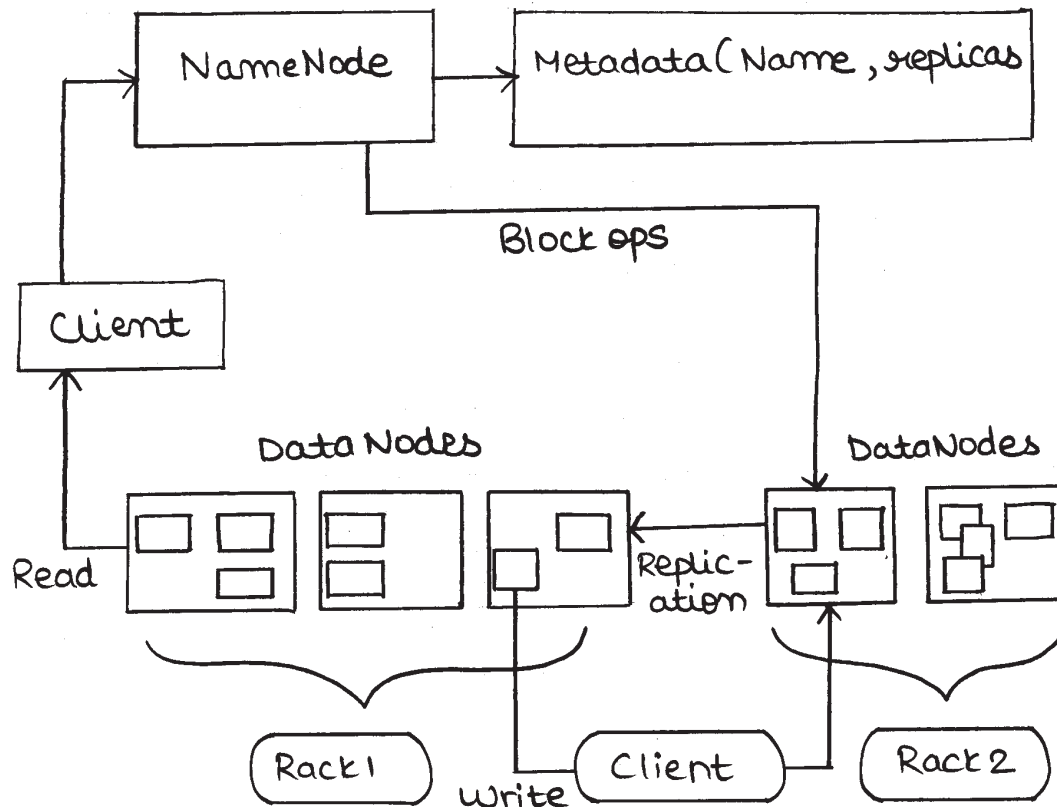


Fig. No. 1

5. Attempt any THREE of the following:

12

- Differentiate between parallel and distributed computing.
- What is application virtualization? Explain its two types with example.
- Explain any one of the cloud deployment model.
- Compare RDBMS with NoSQL. (any four points)
- What is virtualization? Explain any two characteristics of virtualized environment.

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**Marks**

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

**12**

- a) Draw and explain the seven step model of migration into a cloud.
  - b) Explain cloud computing architecture with suitable diagram.
  - c) Give the step by step procedure to connect virtual machine to mysql on cloud.
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