

Duration: 3hrs

[Max Marks:80]

- N.B. : (1) Question No 1 is Compulsory.
(2) Attempt any three questions out of the remaining five.
(3) All questions carry equal marks.
(4) Assume suitable data, if required and state it clearly.

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(2) Attempt any three from remaining five questions.

Q1.

- a. Explain the NIST Cloud computing. **05**
- b. Discuss cloud service models **05**
- c. Considering an example of IT software developing company, explain benefits of virtualization for that company. **05**
- d. KVM and XEN are two open source virtualization technology, differentiate them based on type of virtualization, type of environment to be used, design of kernel module, and support for para-virtualization. **05**

Q2.

- a. Explain open stack architecture in detail. **10**
- b. Explain Software-as-a-Service (SaaS) with suitable example. **10**

Q3.

- a. Discuss classification or taxonomy of virtualization at different levels. **10**
- b. What is Storage-as-a-service and collaboration-as-a-service? Explain in detail. **10**

Q4.

- a. What is the implementation level of Virtualization? **10**
- b. Discuss the risk and challenges associate with cloud security. **10**

Q5.

- a. Explain architecture of Mobile Cloud Computing. What are the Benefits and challenges of Mobile Cloud computing? **10**
- b. Discuss the role of Cloud Computing in Business and customer applications **10**

Q6. Write a note on **20**

- 1. Discuss Healthcare: ECG analysis in cloud.
- 2. Cloud backup solution and features.
- 3. Eucalyptus cloud.
- 4. AAA model.
