

Duration: 3hrs

[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.

- 1 Attempt any **FOUR** [20]
- a What is cloud? Write Characteristics of cloud computing
 - b Compare between the implementation levels of Virtualizations
 - c Write a note on Cloud Storage Gateways(CSGs)
 - d Compare and contrast between Service Oriented Architecture (SOA) and Cloud Component Model(CCM).
 - e What are the benefits of using cloud computing for Electronic Health Record(EHR) systems?
- 2 a Describe in detail AAA in cloud computing. [10]
- b Explain Cloud Computing for Mobile Communication. [10]
- 3 a Explain in detail Data Confidentiality and Encryption in the cloud [10]
- b Explain open source Eucalyptus cloud architecture and its modes of operation. [10]
- 4 a What are the features of Compute service in cloud and explain the compute service provided by different service provider. [10]
- b Explain cloud service models IAAS, PAAS, SAAS with examples and also explain cloud deployment models [10]
- 5 a What is virtualization and state its Benefits? Explain Mechanisms used for Virtualization of system. [10]
- b What are the pros and cons of using relational and non-relational databases in cloud? [10]
- 6 a List the different streaming methods and explain RTMP streaming, HTTP live streaming and HTTP Dynamic Streaming [10]
- b Write in detail about Application services in cloud [10]