

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 are the benefits of using cloud for Electronic Health Record (EHR) systems?
 - b Compare Service Oriented Architecture (SOA) and Cloud Component Model (CCM).
 - c Explain host security for IAAS.
 - d Compare cloud service models IAAS, PAAS, SAAS.
 - e What are the merits and demerits of different levels of virtualization implementation?
- 2 a Explain authentication and authorization management in cloud. [10]
- b Explain RTMP, HTTP live and HTTP Dynamic streaming protocols. [10]
- 3 a How is data security implemented for data at rest and in motion? [10]
- b Explain Apache Cloudstack, Eucalyptus, Openstack open source private cloud softwares. [10]
- 4 a Explain database services in cloud with example from any one cloud service provider. [10]
- b Draw neat diagrams and explain public, private, community and hybrid cloud types. [10]
- 5 a Explain the implementation levels of virtualization with necessary diagrams. [10]
- b What are the pros and cons of using relational and non-relational databases in cloud? [10]
- 6 a Explain fog and edge computing with necessary diagrams. [10]
- b Explain analytics services in cloud with example from any one cloud service provider. [10]
