

09-06-2026 BE EXTC SEM-VII C SCHEME CCS QP CODE: 20012296

Time: 3 hours

Total Marks: 80

N.B.:

- 1) Question No.1 is compulsory
- 2) Solve any three from remaining five.
- 3) Figures to right indicate full marks.

Q. 1 Attempt any four questions.

- A) Analyze Relational and Nonrelational Databases in Cloud. [5]
- B) Explain different components of Cloud Computing Architecture. [5]
- C) Explain Hypervisor versus Xen architecture. [5]
- D) What is the cloud? Explain its characteristics. [5]
- E) Explain the Cloud Storage Gateway with neat diagram. [5]

- Q. 2**
- A) Explain Virtualization at OS level in detail with neat diagram. What are the benefits of virtualization. [10]
 - B) Explain different streaming methods. Explain RTMP streaming, HTTP live streaming & HTTP dynamic streaming. [10]

- Q. 3**
- A) Analyze public, private, hybrid, community cloud types with necessary diagrams [10]
 - B) Explain in detail Security for IAAS, PAAS, SAAS. [10]

- Q. 4**
- A) Explain Apache Cloud stack, Eucalyptus, open stack private cloud software. [10]
 - B) Explain Content Delivery services in cloud with example of any cloud service provider. [10]

- Q. 5**
- A) Explain Compute services in cloud with example of any two-cloud service provider. [10]
 - B) Illustrate SOA Architecture with guiding principles. Write advantages, disadvantages & practical application of SOA. [10]

Q. 6 Write short notes on: (Attempt any four)

- A) Cloud Computing for Education [5]
- B) Cloud AAA model [5]
- C) Design consideration of cloud application [5]
- D) Cloud computing versus Peer-to-Peer Architecture [5]
- E) Fog Computing and Edge Computing [5]
