

18 NOV 2025 BE EXTC SEM-VII C SCHEME CCAS QP CODE: 10080997

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 implementation level of virtualization. [5]
B) Explain the Cloud database services in brief. [5]
C) Explain Cloud service versus client Server Architecture. [5]
D) What is the cloud? Explain its characteristics. [5]
E) Explain the Cloud firewall with neat diagram. [5]

Q. 2 A) Illustrate public, private, hybrid, community cloud types with necessary diagrams. [10]

B) Explain different streaming methods. Explain RTMP streaming, HTTP live streaming & HTTP dynamic streaming [10]

Q. 3 A) Analyze cloud service models (IAAS, PAAS, SAAS) with proper diagrams [10]

B) Explain in detail Data Confidentiality & encryption in cloud with example. [10]

Q. 4 A) Explain Apache Cloud stack, Eucalyptus, open stack private cloud software. [10]

B) Illustrate Data Availability with allowed downtime for each availability level as well as estimated loss per hour due to outage of cloud-based data & services. [10]

Q. 5 A) Explain Analytics services in cloud with example of any two-cloud service provider. [10]

B) What are the functions of model, view & Controller in MVC model. [10]

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

- A) Cloud Computing for Healthcare [5]
B) Relational and Nonrelational Databases in Cloud [5]
C) Design consideration of cloud application [5]
D) Hypervisor & Xen architecture [5]
E) Fog Computing and Edge Computing [5]