06/06/2025  BE  EXTC  SEM-VII  C-SCHEME  CCAS  QP CODE: 10080996

**Time: 3 hours**                                                                    **Max. Marks: 80**

INSTRUCTIONS
(1) Question 1 is compulsory.
(2) Attempt any **three** from the remaining questions.
(3) Draw neat diagrams wherever necessary.

**Q1**                                                                                          **20 marks**
  a) Compare cloud service models IAAS, PAAS, SAAS
  b) Explain the advantages of Virtualization.
  c) Short note on Compute Services.
  d) Describe different streaming protocols.

**Q2**                                                                                          **20 marks**
  a) Illustrate the different Design Considerations for Cloud Applications in detail.
  b) Explain the implementation levels of virtualization with the necessary diagrams.

**Q3**                                                                                          **20 marks**
  a) Explain analytics services in cloud with an example of any one cloud service
     provider
  b) Describe fog and edge computing with necessary diagrams.

**Q4**                                                                                          **20 marks**
  a) Explain how Cloud Storage Gateways (CSGs) provide data protection with its
     features and necessary diagram.
  b) Describe Storage Services - Amazon Simple Storage Service, Google Cloud
     Storage, Windows Azure Storage.

**Q5**                                                                                          **20 marks**
  a) Describe various database services, Amazon Dynamo DB, Google Cloud SQL,
     and Amazon Relational Data Store in detail.
  b) Compare Hypervisor and XEN Architecture with diagram and explain
     Virtualization in Multicore processors?

**Q6**                                                                                          **20 marks**
  a) Illustrate AAA Administration for Clouds.
  b) Describe the different key elements and methods of RESTful web services.

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