

B.E. Sem-VII C-Scheme Summer 2025 EXTC

616125

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.