

BT Sem 8, Choice based, C-scheme, R 2019-20, May 2025  
Branch - INFT, Date: - 19/5/2025

Duration: 3 hours

[Max 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.

**Q.1 Answer any four questions. Each question carries five marks. [20 M]**

- A Explain the need of Cloud Computing and what are its components.
- B Explain NIST Architecture of Cloud Computing.
- C Draw and explain KVM Architecture in details.
- D Write a short note on DynamoDB.
- E Describe CloudWatch in Cloud Computing.

**Q.2 Answer the following.**

- A What is Virtualization? Explain Characteristics of virtualized environment and compare with it cloud computing? [10 M]
- B Explain Implementation Levels of Virtualization in detail.? [10 M]

**Q.3 Answer the following.**

- A Explain Everything as a Service (XaaS) along with SPI model of Cloud Computing.? [10 M]
- B Discuss Analytics as a Service and Backup as a Service with examples.? [10 M]

**Q.4 Answer the following.**

- A Illustrate the different types of Instances in detail with Instance life cycle? [10 M]
- B Describe EBS and S3 Storage services and state how they differ? [10 M]

**Q.5 Answer the following.**

- A Evaluate Serverless Computing with AWS Lambda? [10 M]
- B Describe OpenStack Architecture with its components in detail? [10 M]

**Q.6 Answer the following.**

- A Explain Privacy Concerns in the cloud with Legal and Regulatory Implications? [10 M]
- B Explain Different types of security in cloud, attacks, and vulnerabilities? [10 M]