

19/05/2025 BE IT SEM-VIII C-SCHEME CCS QP CODE: 10083521

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]**