

**IM.Sc. (CS) Sem.-8 Examination
Cloud Computing**

Time : 3.00 Hours]

June-2025

[Max.Marks : 70

Section – 1

- Q1 Answer the followings in 2-3 sentences: (Any 5)** **[15 marks]**
- 1) What do you understand by 'Provisioning in Cloud Computing' ?
 - 2) Discuss the term 'On Demand' service model.
 - 3) Discuss the key aspects of NIST definition of Cloud Computing.
 - 4) Explain the term 'Ubiquitous Computing' with reference to cloud computing.
 - 5) When will you use Scaling in Cloud?
 - 6) Suppose you wish to use configure networking, DNS etc in cloud environment, which cloud will you prefer – IAAS/PAAS/SAAS ? Why ?
- Q2 Do as Directed: (Any 3)** **[12 marks]**
- 1) Discuss cloud service models in detail.
 - 2) Differentiate between Public Cloud & Private Cloud.
 - 3) Write a short note on Virtualization, discuss para-virtualization and full-virtualization.
 - 4) Discuss Cloud Cube Model in detail
 - 5) Explain Cloud Reference Architecture.
- Q3 Do as directed (Any 4)** **[08 marks]**
- 1) Write a brief note on building applications of AI using Cloud
 - 2) Discuss the concept of Storage services in cloud
 - 3) Write a note on Lambda Services in AWS
 - 4) What is the need of IAM in AWS?
 - 5) Mention the steps to create a static website in AWS

Section – 2

- Q4 Answer the followings in 2-3 sentences: (Any 5)** **[15 marks]**
- 1) What do you understand by Quality of Service (QoS)?
 - 2) What is the significance of 3Vs in Big Data ?
 - 3) What is Sandboxing?
 - 4) What is N+1 rule in traditional approach for fault tolerance?
 - 5) What do you understand by 'Auto Scaling Group'?
 - 6) How do you know whether an instance is overloaded or not in cloud?
 - 7) Discuss BASE theorem in brief.
- Q5 Do as Directed: (Any 4)** **[12 marks]**
- 1) Discuss the actors related to CDN.
 - 2) Discuss different scenarios and problems associated with them during portability and inter-operability of applications across cloud.
 - 3) Write a short note on Non-Relational DBMS in Cloud
 - 4) Write a short note on Categories of Load Balancing
 - 5) Write a note on Virtualization Security Threats
 - 6) Classify Dynamic Load Balancing Approaches
- Q6 Discuss AWS Services (Any 2)** **[08 marks]**
- 1) Discuss any 4 AWS Services & its role in brief
 - 2) Discuss the steps to create Linux AWS instance & login to that instance
 - 3) Discuss the case study of CCTV surveillance on cloud, mention any 4 cloud services that you will use.
 - 4) Compare and Contrast use of AWS Services Vs. Creating a private cloud for University