


RAN-2511001005044001
B.Sc. (Comp.) NCF-NEP (Sem. V) Examination October - 2025
Minor-1 Cloud Computing Fundamentals
CCS - 501 - MNI - Cloud Computing Fundamentals
Time: 2 Hours]
[Total Marks: 50
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book

Seat No.:

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Student's Signature

Q-1. Answer the following.
[13]

(A) Answer the following.

[5]

- Which of the following is not a key characteristic of cloud computing?
 - On-demand self-service
 - Resource pooling
 - Vendor lock-in
 - Scalability
- Which type of hypervisor runs directly on the hardware without an operating system?
 - Type I
 - Type 2
 - Emulation
 - Para-virtualization
- Which AWS service is equivalent to Azure Blob Storage?
 - Amazon RDS
 - Amazon Glacier
 - Amazon S3
 - AWS Lambda
- Which compliance standard focuses on healthcare data protection?
 - GDPR
 - HIPAA
 - SOC 2
 - CSA
- Which trend in cloud computing supports low-latency IoT applications?
 - Green Cloud
 - Edge Computing
 - Quantum Computing
 - SOA

(B) Answer the following.
[08]

- Define cloud computing. List its benefits.
- Define SaaS with example.
- Mention any two challenges of cloud computing.
- What is hybrid cloud?

Q-2. Answer the following (Any Two).
[13]

(A) Explain cloud computing architecture with neat diagram.

[08]
OR

(A) Discuss various types of virtualizations with examples.

[08]

(B) What is a hypervisor? Explain type-1 and type-2 with examples.

[05]
Q-3. Answer the following (Any Two).
[12]

(A) Write short notes on AWS EC2 and Azure Virtual Machines.

(B) Explain NoSQL databases in cloud with examples DynamoDB and Cosmos DB.

(C) Discuss Identity and Access Management (IAM in AWS and AAD in Azure).

- Q-4.** **Answer the following (Any Two).** **[12]**
- (A) What are Cloud Security Principles?
 - (B) Differentiate between OLTP and OLAP.
 - (C) Explain Service Level Agreements (SLAs) in cloud computing.
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