



RAN-2511001005044001

B.Sc. (Computer Science) NCF-NEP (Sem. - V) Examination March - 2026

CS - 501 - MN1 - Cloud Computing Fundamentals (Minor 1)

[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.: <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table> Student's Signature						

- Q. 1. Answer the following.** 13
- (A) Answer the following.** 5
- Which service model provides ready-to-use applications over the internet?
 - IaaS
 - PaaS
 - SaaS
 - DBaaS
 - Virtualization allows:
 - Running multiple OS on one physical machine
 - Only one OS on a server
 - Direct hardware programming
 - None of the above
 - Which AWS service provides serverless computing?
 - EC2
 - S3
 - Lambda
 - RDS
 - Which of the following is a cloud security principle?
 - Resource pooling
 - Least privilege
 - Multi-tenancy
 - Elasticity
 - Which is a difference between OLTP and OLAP?
 - OLTP supports analytical queries, OLAP supports transactions
 - OLTP is for transactions, OLAP is for analysis
 - Both store unstructured data
 - OLTP is slower than OLAP
- (B) Answer the following.** 8
- What is private cloud?
 - Define PaaS with example.
 - Discuss two business applications of cloud.
 - Define cost-efficiency in cloud computing.
 - What is multi-cloud strategy?

- Q. 2. Answer the following. 13**
(A) Describe front-end and back-end architecture of cloud. 8
OR
(A) Explain resource pooling and multi-tenancy with examples. 8
(B) What is cloud transformation planning? Explain its steps. 5
- Q. 3. Answer the following (Any Two). 12**
(A) Explain serverless computing using AWS Lambda and Azure Functions.
(B) Write a note on AWS CloudWatch and Azure Monitor.
(C) Explain Azure Resource Manager and AWS CloudFormation.
- Q. 4. Answer the following (Any Two). 12**
(A) Differentiate between Data Warehouse and Data Lake.
(B) Discuss role of CSA (Cloud Security Alliance).
(C) Write a note on Quantum Computing in context of cloud.
-