21CSC4E3BL

Sl. No.

M.Sc. IV Semester Degree Examination, October - 2023
COMPUTER SCIENCE
Cloud Computing
(NEP)

Time : 3 Hours   Maximum Marks : 70

Note : *Answer **any five** questions. (Question No.* ***1*** *is **compulsory**)*

1. (a) How does the cloud cube model help in analyzing cloud services based on their dimensions ?   **7**

   (b) What are the different service models in cloud computing, and how do they differ in terms of management requirements ?   **7**

2. (a) Discuss on Infrastructure as a Service.   **7**

   (b) Explain the importance of Identity management in network system and how Identity services work.   **7**

3. (a) Describe the role of Resource ceilings in Capacity planning and Performance Analysis.   **7**

   (b) Discuss the importance of load testing in capacity planning and performance analysis.   **7**

4. (a) List and explain various SOA management tools that are essential to monitor, optimize, and ensure the smooth operation of SOA services and applications.   **7**

   (b) Briefly discuss on Event-driven SOA.   **7**

5. (a) How does Encryption play a crucial role in enhancing the security of data in Cloud Computing ?   **7**

   (b) List and explain protocols used in cloud computing to provide identity services (Identity Protocol Standards).   **7**

6. (a) List and explain the key characteristics of Virtual appliances in Cloud **7**
Computing.

(b) How does Hypervisor enable efficient resource allocation in virtualized **7**
environments ?

7. (a) How does an Enterprise Service Bus (ESB) contribute to Cloud Computing **7**
environments ?

(b) What is Brokered cloud storage access in Cloud Computing and how does it **7**
enhance data management ?

8. Write a short notes on the following : **5+5+4**

(a) PaaS

(b) NIST model

(c) Service catalogs

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