

IMBA CSM Sem.-4 Examination**CSM_BBA_DSE - 2****CCS****Time : 2-30 Hours]****May-2025****[Max. Marks : 70****Question 1 Answer the following questions:**

- i. What is Cloud Computing? Explain its layers and types of clouds. 7Marks
- ii. What are the key challenges in Cloud Infrastructure Management? 7Marks

OR

- i. Explain the differences between IaaS, PaaS, and SaaS in Cloud Computing. 7Marks
- ii. What is Virtualization in Cloud Computing? Explain the virtualization of computing, storage, and resources. 7Marks

Question 2 Answer the following questions:

- i. Explain the concept of Virtualization and discuss its benefits in modern computing. 7Marks
- ii. What is a hypervisor? Explain the difference between Type 1 and Type 2 hypervisors. 7Marks

OR

- i. Discuss the concept of Virtual Machine (VM) Migration and its importance in cloud computing. 7Marks
- ii. Explain Virtual Clusters and their role in resource management in virtualized environments. 7Marks

Question 3 Answer the following questions:

- i. What are the key security challenges and risks associated with cloud computing? 7Marks
- ii. Explain the importance of Identity Management and Access Control in securing cloud environments. 7Marks

OR

- i. Describe the architectural considerations when securing a cloud computing environment. 7Marks
- ii. What are the general issues in securing the cloud, and how can they be addressed? 7Marks

Questions 4 Answer the following questions:

- i. What are the key types of Cloud services, and how do they differ from each other? 7Marks
- ii. Explain the process of designing solutions for the cloud. What factors should be considered? 7Marks

OR*(P.T.O)*

- i. What is Eucalyptus, and how does it help in building a private cloud for Infrastructure as a Service (IaaS)? 7Marks
- ii. Describe PaaS on IaaS using AppScale. How does AppScale facilitate the deployment of applications on cloud infrastructure? 7Marks

Questions 5: Attempt any Seven out of Twelve.

14 Marks

1. Differentiate between IaaS, PaaS, and SaaS.
2. What is Virtualization in the context of cloud computing?
3. Explain the concept of Software as a Service (SaaS).
4. What is Cloud Computing?
5. What is virtualization technology?
6. What is the difference between Type 1 and Type 2 hypervisors?
7. What is virtual machine provisioning?
8. Explain the concept of virtual machine migration.
9. State any two items that appear on the liability side of a Balance Sheet.
10. What are the main types of cloud services?
11. What is Eucalyptus used for in building private clouds?
12. Explain the concept of "Designing Solutions for the Cloud".

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