

## IMBA in CSM Semester-4 Examination

CSM\_BBA\_DSE-2

CCS

Time : 2-30 Hours]

April-2024

[Max. Marks : 70

Q.1

- A Provide an introduction to IaaS, PaaS, and SaaS. Explain their differences. (7)
- B Explain the process of Virtual Machines provisioning and manageability in IaaS (7)

Q.2

- A Identify and discuss the challenges associated with the SaaS paradigm. (7)
- B Explore the various applications of Cloud Computing in different industries. (7)

Or

Q.2

- A Explore the integration of Private and Public Cloud in PaaS. What advantages does this integration offer? (7)
- B Explain the types of clouds in the context of Cloud Computing. (7)

Q.3

- A Describe the key benefits of load balancing in cloud computing. (7)
- B Explain the concept of snapshot and its importance in virtualization. (7)

Or

Q.3

- A Explain how virtualization enables the creation of virtual instances of computing resources. (7)
- B What are the key steps involved in the provisioning of virtual machines in a cloud context? (7)

Q.4

- A What are the benefits of using templates or Infrastructure as Code (IaC) in cloud provisioning? (7)
- B Outline the importance of application security in cloud computing and describe two techniques for securing cloud-based applications. (7)

Or

Q.4

- A Define virtual machine security and discuss three best practices for securing virtualized environments in the cloud. (7)
- B Discuss the key architectural considerations that need to be addressed for ensuring robust security in cloud computing environments. (7)

Q.5

- A Discuss the principle of least privilege in access control mechanisms for cloud environments and provide two examples of access control policies. (7)
- B Describe the importance of secure execution environments and communications in cloud computing, and list two technologies or protocols used for achieving this. (7)