



Paper ID : 260678

Printed Page: 1

Subject Code:BOE082

Roll No:

BTECH

(SEM. VIII) THEORY EXAMINATION 2025-26

CLOUD COMPUTING

TIME: 3 HRS

M.MARKS: 70

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt *all* questions in brief.

02 x 7 = 14

Q no.	Question	CO	Level
a.	Define Cloud Computing and explain its evolution and key principles.	CO1	K2
b.	What are the different types of clouds? Discuss their significance in business models.	CO1	K2
c.	Explain the different types of cloud services (IaaS, PaaS, SaaS) with relevant examples.	CO2	K2
d.	Compare the offerings of major cloud service providers like Google, Amazon, and Microsoft Azure.	CO2	K2
e.	Discuss the role of cloud-based Word Processing and Spreadsheets in modern groupware.	CO3	K3
f.	What is the need for virtualization in the cloud? Discuss its pros and cons.	CO4	K4
g.	What are the primary security challenges in a cloud environment?	CO5	K5

SECTION B

2. Attempt any *three* of the following:

07 x 3 = 21

Q no.	Question	CO	Level
a.	Explain the underlying principles of Parallel and Distributed computing and how they serve as the foundation for Cloud Computing architecture.	CO1	K4
b.	Explain "Database as a Service" (DBaaS) and "Monitoring as a Service" (MaaS) with their advantages in a cloud enterprise.	CO2	K4
c.	Detail how cloud-based Event Management and Task Management tools improve organizational productivity.	CO3	K4
d.	Explain the process of "Interpretation and Binary Translation" in the context of Virtual Machines.	CO4	K5
e.	Explain the necessity of Cloud Security Standards as defined by the Open Cloud Consortium and the Distributed Management Task Force (DMTF).	CO5	K5

SECTION C

3. Attempt any *one* part of the following:

07 x 1 = 07

Q no.	Question	CO	Level
a.	Compare and contrast major cloud simulation and management tools: Eucalyptus, Nimbus, Open Nebula, and CloudSim.	CO1	K4
b.	Describe the evolution of Cloud Computing and analyze the common issues (challenges) faced in cloud implementations.	CO1	K5



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4. Attempt any one part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Explain the concept of "Communication as a Service" (CaaS) and its importance in modern distributed teams.	CO2	K4
b.	Cloud Computing is not just a technology, but a business model." Analyze this statement by discussing how different cloud service models impact organizational cost structures and operational agility.	CO2	K5

5. Attempt any one part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	How are cloud-based databases used for desktop-as-a-service applications? Explain in details.	CO3	K3
b.	Analyze the significance of Cloud-based Email and Scheduling systems in maintaining operational continuity for remote teams. How does the integration of these tools differ from traditional desktop-based environments?	CO3	K4

6. Attempt any one part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Compare HLL (High-Level Language) VM supervisors, Xen, and KVM in terms of architecture and usage.	CO4	K4
b.	Discuss the importance of Virtual Machine properties in Cloud Computing.	CO4	K4

7. Attempt any one part of the following: 07 x 1 = 07

Q no.	Question	CO	Level
a.	Describe the "Programming Environment for Google App Engine" and its role in cloud application development.	CO5	K4
b.	How do mobile internet devices interact with the cloud, and what are the associated security implications?	CO5	K5