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BTECH
(SEM V) THEORY EXAMINATION 2024-25
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.

2 x 07 = 14

Q no.	Question	CO	Level
a.	Explain the key characteristics of cloud computing.	1	2
b.	Define Communication as a Service (CaaS) with an example of its application.	2	2
c.	Name two popular cloud-based email platforms and their key features.	3	2
d.	What are the key advantages of using cloud services for collaboration?	3	2
e.	What is the difference between System Virtual Machines (VMs) and Process Virtual Machines?	3	4
f.	What is the purpose of the Open Cloud Consortium (OCC)?	4	2
g.	What is the role of firewalls in securing cloud infrastructure?	5	2

SECTION B

2. Attempt any three of the following:

07 x 3 = 21

a.	Compare and contrast public, private, and hybrid clouds, providing examples of each.	1	4
b.	What is Platform as a Service (PaaS)? Describe how it simplifies application development and deployment.	2	2
c.	What is CRM management in the cloud? Discuss its importance for businesses with examples.	3	3
d.	What are the advantages and disadvantages of virtualization? Provide examples to illustrate your answer.	4	3
e.	Explain the role of identity and access management (IAM) in ensuring secure access to cloud resources.	5	2

SECTION C

3. Attempt any one part of the following:

07 x 1 = 07

a.	What distinguishes AWS from other cloud providers? Discuss its key features and services.	1	3
b.	Describe the features of Nimbus and its role in cloud computing research.	1	2

4. Attempt any one part of the following:

07 x 1 = 07

a.	How do organizations choose between SaaS, PaaS, and IaaS for their specific needs? Provide examples.	2	4
b.	What is serverless computing, and how does it enhance the PaaS model? Discuss its applications.	2	3

5. Attempt any one part of the following:

07 x 1 = 07

a.	Discuss the role of cloud-based office suites in improving document management and team collaboration.	3	2
b.	Compare the use of cloud-based collaboration tools in remote and in-office working environments.	3	4

6. Attempt any one part of the following:

07 x 1 = 07

a.	Describe network virtualization and its role in modern cloud architectures.	4	2
b.	What makes VMware a popular choice for virtualization? Highlight its key features and applications.	4	2

7. Attempt any one part of the following:

07 x 1 = 07

a.	What is HDFS, and how does it ensure reliable storage in a distributed environment?	5	2
b.	Explain the risks of insider threats in cloud computing, and how can they be mitigated?	5	2