PAPER ID-310323

Roll No: | | | | | | | | | | | | |

MCA
(SEM III) 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.	1	K2
b.	What is the role of CloudSim?	1	K1
c.	What is SaaS with an example?	2	K1
d.	Mention any two cloud service providers.	2	K2
e.	What is Task Management in the cloud?	3	K1
f.	Name any four virtualization tools.	4	K1
g.	Define SaaS security.	5	K1

SECTION B

2. **Attempt any *three* of the following:** **07 x 3 = 21**

a.	Explain the evolution and history of cloud computing in detail.	1	K3
b.	What are the different types of cloud services? Discuss in detail.	2	K2
c.	Explain email communication over cloud with examples.	3	K3
d.	Explain System VM and Process VM with architecture.	4	K2
e.	Discuss cloud security challenges and solutions.	5	K3

SECTION C

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

a.	Explain the underlying principles of parallel and distributed computing.	1	K2
b.	Describe the cloud architecture with a neat diagram.	1	K3

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

a.	Compare Google Cloud, Amazon AWS, Microsoft Azure, IBM Cloud, and Salesforce.	2	K2
b.	Explain Monitoring as a Service and Communication as a Service with use cases.	2	K3

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

a.	Discuss the role of social networks and groupware in cloud collaboration.	3	K2
b.	Explain scheduling and event management in cloud platforms.	3	K2

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

a.	Compare Xen, KVM, VMware, VirtualBox, and Hyper-V.	4	K3
b.	Explain virtual machine monitors and their functions.	4	K2

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

a.	Explain end-user access methods to cloud computing.	5	K3
b.	Explain Google App Engine and its programming environment.	5	K3