

Gandhi Institute of Engineering and Technology University, Odisha, Gunupur (GIET University)

M.C.A. (Second Semester - Regular) Examinations, May - 2026

MCA252011 – Cloud Computing



Time: 3 hrs

Maximum: 60 Marks

(The figures in the right hand margin indicate marks)

PART – A

(2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

	CO #	Blooms Level
a. Define cloud computing.	CO1	K1
b. What is identity & access management (IAM) in Cloud Computing?	CO2	K1
c. What do you understand by hybrid cloud?	CO3	K2
d. What is centralized email communication? How it is relevant in Cloud Computing?	CO4	K2
e. What is SLA (Service Level Agreement) used in cloud computing?	CO5	K1

PART – B

(10 x 5 = 50 Marks)

Answer **ALL** questions

	Marks	CO #	Blooms Level
2. a. Explain different computing paradigms used in cloud computing.	5	CO1	K2
b. Explain cloud computing service layers in detail.	5	CO1	K2
(OR)			
c. Describe the important features & benefits of cloud computing.	5	CO1	K2
d. Discuss how cloud computing differs from traditional computing.	5	CO1	K4
3.a. Differentiate between scalability & elasticity with suitable examples.	5	CO2	K4
b. Discuss private, public, hybrid & community cloud.	5	CO2	K2
(OR)			
c. Explain the working principle of type1 hypervisor & type2 hypervisor with a neat diagram.	5	CO2	K2
d. Explain resource virtualization.	5	CO2	K2
Discuss server virtualization, storage virtualization & network virtualization.			
4.a. Describe the role of Aneka in cloud computing.	5	CO3	K2
b. Differentiate between live migration & cold migration.	5	CO3	K4
What is the importance of VM migration services?			
(OR)			
c. Explain IaaS & PaaS architectures in detail.	10	CO3	K4
Compare their architectures, features, advantages & limitations.			
5.a. Explain SaaS architecture & its advantages	5	CO4	K2
b. Discuss data security issues in cloud computing.	5	CO4	K2
(OR)			
c. Explain VM provisioning & migration services in cloud computing.	10	CO2	K2
Describe VM provisioning process, types & techniques of VM migration.			
6.a. Explain cloud disaster management in detail.	5	CO5	K2
b. Why data privacy & security issues are important in cloud computing.	5	CO5	K2
(OR)			
c. Describe authentication & access control mechanisms in cloud.	5	CO5	K2
d. How data security & storage services differ from data privacy & storage?	5	CO5	K4

--- End of Paper ---