



**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY,
ODISHA, GUNUPUR
(GIET UNIVERSITY)**

B.C.A (Fifth Semester) Regular Examinations, November - 2025

BCA23503 - Cloud Computing

(BCA)

Time: 3hrs

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 Amazon EC2. | CO4 | K1 |
| b. What is meant by Load Balancing in Cloud Computing? | CO3 | K1 |
| c. Write a short note on DDoS Attacks. | CO2 | K1 |
| d. Difference between On-Premise Resources and Cloud based IT Resources. | CO5 | K3 |
| e. Define RBAC and ABAC with examples. | CO5 | K2 |

PART – B

(10 x5=50 Marks)

Answer *ALL* questions

- | | Marks | CO # | Blooms
Level |
|---|-------|------|-----------------|
| 2. a. Discuss the different characteristics and benefits of Cloud Computing. | 5 | CO1 | K1 |
| b. Explain the Evolution of Cloud Computing. | 5 | CO1 | K1 |
| (OR) | | | |
| c. Explain about Cloud Deployment Models with neat diagrams. | 5 | CO1 | K1 |
| d. Differentiate between Grid, Cluster and Cloud Computing with examples. | 5 | CO1 | K1 |
| 3.a. Define Virtualization. Explain the key concepts and technologies used in Virtualization. | 5 | CO2 | K2 |
| b. Explain the concepts of Scalability and Elasticity in Cloud Computing. | 5 | CO2 | K3 |
| (OR) | | | |
| c. Explain the different types of Virtualizations. | 5 | CO2 | K1 |
| d. Explain the concept of Hypervisor with its major features, advantages and benefits with neat diagrams. | 5 | CO1 | K2 |
| 4.a. Explain the concept of Cloud Resource Provisioning and its importance. | 5 | CO3 | K3 |
| b. Explain the role of QoS (Quality of Service) in Cloud. | 5 | CO3 | K1 |
| (OR) | | | |
| c. Describe the Billing Process in Cloud Computing and its Key Components. | 5 | CO4 | K1 |
| d. Discuss the need for Admission Control in Cloud Computing. | 5 | CO4 | K2 |
| 5.a. What is Cloud Disaster Management? Explain its importance in Cloud Computing. | 5 | CO2 | K3 |
| b. Describe the Key Components of Infrastructure Security in the Cloud. | 5 | CO1 | K1 |
| (OR) | | | |
| c. Explain the VM Provisioning Workflow with a neat diagram. | 5 | CO4 | K1 |
| d. Describe key phases and tools used in Cloud Migration (e.g., AWS Migration Hub). | 5 | CO3 | K2 |
| 6.a. Explain Data Privacy and Security issues in Cloud Computing. | 5 | CO5 | K3 |
| b. What is a Cloud Contracting Model? Discuss its key components. | 5 | CO5 | K1 |
| (OR) | | | |
| c. Explain what are the types of Access Controls in Cloud Computing. | 5 | CO4 | K1 |
| d. Distinguish between Cloud Contract Management and On-Premise Management. | 5 | CO5 | K3 |

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