



**GIET UNIVERSITY, GUNUPUR - 765022**  
M.C.A (Second Semester) Regular Examinations, May - 2024  
**MCA23205 - 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. List the different types of deployment model in cloud computing. | CO1  | K1           |
| b. Define the various types of network virtualization.              | CO2  | K1           |
| c. What are the features of PAAS?                                   | CO3  | K1           |
| d. What is data security?   | CO4  | K1           |
| e. Define network infrastructure security.                          | CO5  | K1           |

**PART – B****(10 x5=50 Marks)**Answer ALL questions

- |  | Marks | CO # | Blooms Level |
|--|-------|------|--------------|
| 2. a. Define computing paradigms. Explain the different types of computing paradigms.                | 5     | CO1  | K2           |
| b. Explain the concepts of SAAS with diagram.<br>(OR)  | 5     | CO1  | K1           |
| c. What is Virtualization? Define various characteristics, types and benefits of Virtualization.     | 5     | CO2  | K3           |
| d. What is Network virtualization? Explain various types of network virtualization.                  | 5     | CO2  | K2           |
| 3.a. Define PAAS with various features and case study.   | 5     | CO3  | K1           |
| b. What are virtual machine migration services? Define migration techniques with all stages.<br>(OR) | 5     | CO3  | K2           |
| c. Define Google app engine. Explain its stages with block diagram.                                  | 5     | CO4  | K3           |
| d. Write down the different desired features of cloud.   | 5     | CO4  | K2           |
| 4.a. Explain the different types of cloud computing based deployment models.                         | 5     | CO1  | K3           |
| b. Explain the concepts of IAAS with diagram.<br>(OR)  | 5     | CO3  | K2           |
| c. What is a Hypervisor? What are the common features of hypervisor explain with diagram?            | 5     | CO2  | K3           |
| d. What are the different advantages of Hypervisor-based systems?                                    | 5     | CO2  | K2           |
| 5.a. What are virtual machine migration services? Define migration techniques with all stages.       | 5     | CO3  | K3           |
| b. What is ANEKA? Give a clear description with diagram.<br>(OR)                                     | 5     | CO3  | K2           |
| c. Discuss the features of App Engine.   | 5     | CO4  | K3           |
| d. Define data security. Explain its technology in cloud computing.                                  | 5     | CO4  | K2           |
| 6.a. Write the concept of cloud infrastructure management.   | 5     | CO1  | K2           |
| b. Write the features of cloud computing.<br>(OR)  | 5     | CO1  | K1           |
| c. Define authentication in cloud computing security.  | 5     | CO5  | K3           |
| d. Define client access. Explain cloud contracting model.  | 5     | CO5  | K2           |

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