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**Presidency University**

**Bengaluru**

**School Of Computer Science and Engineering & Information Science**

**End-Term Examinations, Aug 2024**

**Date**: 05/08/2024

**Time**: 9.30AM to 12.30PM

**Max Marks**: 100

**Weightage**: 50%

**Odd Semester**: 2023 - 24

**Course Code**: CSA4005

**Course Name**: Cloud Computing

**Department:** MCA

**Instructions:**

1. *Read the all questions carefully and answer accordingly.*
2. *Do not write any matter on the question paper other than roll number.*

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| **Q.No** | **Questions** | **Marks** | **CO** | **RBT** |
| 1 | 1. List out the challenges of cloud computing. | 4 | CO1 | L1 |
| 1. Discuss the different types of Cloud computing. | 6 | CO1 | L2 |
| 1. Explain the factors that influence the evolution of Cloud computing. | 10 | CO1 | L3 |
| OR | | | | |
| 2 | 1. Define cloud computing and identify its features. | 4 | CO1 | L1 |
| 1. Explain the Cloud computing service reference model with a neat diagram | 6 | CO1 | L2 |
| 1. Discuss the services provided by the Cloud computing. | 10 | CO1 | L3 |

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| 3 | 1. Define Virtualization and list various domains of virtualization.. | 4 | CO2 | L1 |
| 1. Explain the three major components of virtualization. | 6 | CO2 | L2 |
| 1. Discuss the characteristics of virtual environments. | 10 | CO2 | L3 |

OR

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| 4 | 1. Identify the reasons for the popularity of Virtualization. | 4 | CO2 | L1 |
| 1. Discuss about hardware level virtualization with a neat diagram. | 6 | CO2 | L2 |
| 1. Explain virtual machine manager and its criteria with suitable diagrams. | 10 | CO2 | L3 |

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| 5 | 1. Identify the significance of virtual server in cloud computing. | 4 | CO3 | L1 |
| 1. With neat diagram explain the life cycle of service leval agreement(SLA).. | 6 | CO3 | L2 |
| 1. Discuss about logical network perimeter cloud infrastructure mechanism. | 10 | CO3 | L3 |

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| 6 | 1. Define service level agreement and the metrics used . | 4 | CO3 | L1 |
| 1. Discuss the significance of cloud usage monitor mechanism. | 6 | CO3 | L2 |
| 1. Explain in detail the cloud storage device infrastructure mechanism. | 10 | CO3 | L3 |

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| 7 | 1. Identify the key features of CGL-map reduce. | 4 | CO4 | L1 |
| 1. Discuss the role of programming models in Cloud computing. | 6 | CO4 | L2 |
| 1. Explain the working of map reduce with a suitable example. | 10 | CO4 | L3 |

OR

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| 8 | 1. Define serialization if Cloud Haskell. | 4 | CO4 | L1 |
| 1. Discuss the key features of cloud Haskell model. | 6 | CO4 | L2 |
| 1. Explain the steps involved in CGL-Map reduce technique. | 10 | CO4 | L3 |

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| 9 | 1. List the advantages of service level agreement(SLA). | 4 | CO3 | L1 |
| 1. Discuss about load balancer specialized cloud mechanism. | 6 | CO3 | L2 |
| 1. Explain automated scaling listener specialized cloud mechanism. | 10 | CO3 | L3 |

OR

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| 10 | 1. Identify the reasons for the popularity of Dockers. | 4 | CO4 | L1 |
| 1. Discuss about containers and its advantages. | 6 | CO4 | L2 |
| 1. Explain the architecture of Docker and its working. | 10 | CO4 | L3 |