PRESIDENCY UNIVERSITY
BENGALURU

SCHOOL OF ENGINEERING
MID TERM EXAMINATION - MAY 2023

Semester : Semester IV - 2021   **Date :** 18-MAY-2023
Course Code : CSE2013   **Time :** 10.30AM - 12.00PM
Course Name : Sem IV - CSE2013 - Cloud Computing   **Max Marks :** 50
Program : CSD   **Weightage :** 25%

Instructions:
(i) Read all questions carefully and answer accordingly.
(ii) Question paper consists of 3 parts.
(iii) Scientific and non-programmable calculator are permitted.
(iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS   **(5 X 2 = 10M)**

1. Why are the three major components in virtualized environment?

                                                        (CO2) [Knowledge]

2. Mention the benefits of virtualization in cloud computing.

                                                        (CO2) [Knowledge]

3. Define Cloud Computing.

                                                        (CO1) [Knowledge]

4. Mention the computing platforms and technologies involved in the cloud computing.

                                                        (CO1) [Knowledge]

5. Give the importance of service orientation computing.

                                                        (CO1) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS   **(4 X 5 = 20M)**

6. Summarize the differences between Bare-metal hypervisor and hosted hypervisor.

                                                        (CO2) [Comprehension]

7. Discuss the three major components in virtualized environment.

                                                        (CO2) [Comprehension]

8. Discuss the five core technologies involved in the evaluation of cloud computing.

(CO1) [Comprehension]

9. Write the difference between grid computing and cloud computing.

(CO1) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS   (2 X 10 = 20M)

10. Virtualization simplifies the use of resources, isolates users from one another, supports replication and mobility, but exacts a price in terms of performance and cost. Analyse each one of these aspects for: (i) server virtualization, (ii) Storage virtualization, (iii) hardware virtualization, and (iii) Network virtualization for communication channel.

(CO2) [Application]

11. A retail company has websites that require high performance. They have on-premise servers to handle the work, but sometimes during seasons of sales, they experience periods of spikes in traffic. Discuss the appropriate deployment model to handle their traffic spikes.

(CO1) [Application]