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**PRESIDENCY
UNIVERSITY**

BENGALURU

School of Information and science

Mid - Term Examinations – November 2024

Semester: V

Date: 04-11-2024

Course Code: CSA2008

Time: 02.00pm to 03.30pm

Course Name: Essentials of Cloud Computing

Max Marks: 50

Program: SCIS(BCA)

Weightage: 25%

Instructions:

(i) Read all questions carefully and answer accordingly.

(ii) Do not write anything on the question paper other than roll number.

Part A

Answer ALL the Questions. Each question carries 2marks.

5Qx2M=10M

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|----------|--------------------------------------------------------------------|---------|----|-----|
| 1 | Define cloud computing. | 2 Marks | L1 | CO1 |
| 2 | Name two primary components of cloud computing. | 2 Marks | L1 | CO1 |
| 3 | State the functionalities of the automation tools and its working. | 2 Marks | L1 | CO1 |
| 4 | List two tools or products used for server virtualization. | 2 Marks | L1 | CO2 |
| 5 | Define SaaS. | 2 Marks | L1 | CO2 |

Part B

Answer ALL Questions. Each question carries 10 marks.

4QX10M=40M

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|----------|-------------------------------------------------------------------------------------------------------------|---------|----|-----|
| 6 | a. Define virtual machine in the context of cloud computing. | 2 Marks | L1 | CO1 |
| | b. Explain the advantages and disadvantages of mainframes. | 3 Marks | L2 | CO1 |
| | c. Explain the essential components of cloud computing and their roles in delivering cloud services. | 5 Marks | L3 | CO1 |

Or

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|----------|------------------------------------------------------------------------------------------------------------------------------|---------|----|-----|
| 7 | a. Define Cloud Storage. | 2 Marks | L1 | CO1 |
| | b. Explain three main features why cloud is so popular. | 3 Marks | L2 | CO1 |
| | c. What is Infrastructure as a Service (IaaS)? Describe its key features and give examples of popular IaaS providers. | 5 Marks | L2 | CO1 |

- 8**
- a.** Name one benefit of cloud storage. 2 Marks L1 C01
 - b.** Discuss three technologies with which cloud is composed. 3 Marks L2 C01
 - c.** Discuss the role of cloud storage applications and database services in modern computing. Provide examples. 5 Marks L2 C01
- Or**
- 9**
- a.** List the main components of Cloud Computing. 2 Marks L1 C01
 - b.** List three criteria for a cloud service. 3 Marks L2 C01
 - c.** Explain the different deployment models of cloud computing and provide use-case examples for each. 5 Marks L3 C01
- 10**
- a.** How does virtualization contribute to cloud computing? 2 Marks L1 C02
 - b.** Explain three major components of virtualized environment. 3 Marks L2 C02
 - c.** Why are virtualized environments so popular today? Explain. 5 Marks L3 C02
- Or**
- 11**
- a.** Define virtualization in cloud computing. 2 Marks L1 C02
 - b.** Draw VMM structure and explain each of its components. 3 Marks L2 C02
 - c.** Explain managed execution types in virtualization with a neat diagram. 5 Marks L3 C02
- 12**
- a.** Name three types of virtualization. 2 Marks L1 C02
 - b.** List three differences between full virtualization and paravirtualization. 3 Marks L2 C02
 - c.** Explain types of hypervisor with a neat diagram. 5 Marks L3 C02
- Or**
- 13**
- a.** Define server virtualization. 2 Marks L1 C02
 - b.** Explain server consolidation and virtual machine migration with a neat diagram. 3 Marks L2 C02
 - c.** Explain hardware level virtualization with a neat diagram. 5 Marks L3 C02