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**PRESIDENCY
UNIVERSITY**
BENGALURU

School of Computer Science and Engineering
Mid - Term Examinations - November 2024

Semester: V

Course Code: CSE3343

Course Name: CLOUD COMPUTING

Program: B.Tech.

Date: 05/11/2024

Time: 09.30am to 11.00am

Max Marks: 50

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

- | | | | | |
|---|--|---------|----|-----|
| 1 | Compare single core and Multiple cores in a processor | 2 Marks | L2 | CO1 |
| 2 | Explain major milestones used in cloud computing. | 2 Marks | L1 | CO1 |
| 3 | Define Virtualization. | 2 Marks | L1 | CO2 |
| 4 | Expand EC2 and S3 in detail with respect to AWS. | 2 Marks | L1 | CO1 |
| 5 | Explain emulation with respect to virtualized environment. | 2 Marks | L1 | CO2 |

Part B

Answer ALL Questions. Each question carries 10 marks.

4QX10M=40M

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|---|----|---|---------|----|-----|
| 6 | a. | List and explain the various cloud services in cloud computing | 3 Marks | L1 | CO1 |
| | b. | Compare the IaaS, PaaS and SaaS cloud computing delivery model. | 7 Marks | L2 | CO1 |

Or

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|---|----|--|---------|----|-----|
| 7 | a. | Summarize the role of Centralized Data Center | 3 Marks | L1 | CO1 |
| | b. | In Historical developments, explain how the core technologies are used in Cloud Computing. | 7 Marks | L2 | CO1 |

- 8 a. List the various deployment models in cloud computing. 2 Marks L1 C01
- b. A small business with 25–30 employees has decided to move its data and working functionalities onto the cloud. They are looking for highly accessible data, easy data backup, and cost-efficient. They also need accounting software and customer service tools. Narrate the best suited deployment model for the considered business and discuss all the deployment models in detail. 8 Marks L3 C01
- Or
- 9 a. List the responsibility of Load balancer. 2 Marks L1 C01
- b. Compare and contrast between Grid computing and Cloud computing. 8 Marks L3 C01
- 10 Utilize the key components of a virtualization environment and create the hypervisors in a Hardware-level virtualization with neat diagram. Also list the role of hypervisor. 10 Marks L3 C02
- Or
- 11 A small business is considering adopting virtualization to optimize its IT infrastructure. Illustrate all the types of virtualization that could benefit the business, and explain how each type would improve efficiency. 10 Marks L3 C02
- 12 Summarize the taxonomy of virtualization. Explain System level virtualization techniques. 10 Marks L3 C02
- Or
- 13 Elaborate each level of virtualization which are implemented in Cloud Computing with neat diagram. 10 Marks L3 C02