



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.													
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End - Term Examinations – May / June 2026

Date: 21- 05-2026

Time: 09:30am – 12:30pm

School: SOIS	Program: BCA	
Course Code :CAS1700	Course Name: ESSENTIALS OF CLOUD COMPUTING	
Semester: IV	Max Marks:100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05	C06
Marks	26	26	12	12	12	12

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.

10Q x 2M=20M

1.	What is cloud computing?	2 Marks	L1	C01
2.	List the hierarchical structure of cloud computing.	2 Marks	L1	C01
3.	State two differences between Type 1 and Type 2 hypervisors.	2 Marks	L1	C01
4.	List the differences between SaaS and PaaS.	2 Marks	L1	C02
5.	State any two ways virtualization reduces IT costs.	2 Marks	L1	C02
6.	List the major components of a virtualized environment.	2 Marks	L1	C02
7.	Mention the benefits of Platform as a Service (PaaS).	2 Marks	L1	C03
8.	What is a data centre?	2 Marks	L1	C04
9.	Define cloud key management.	2 Marks	L1	C05
10.	What is an audit trail?	2 Marks	L1	C06

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Describe the architecture of cloud computing with a neat diagram.	10 Marks	L2	C01
Or					
12.	a.	Compare the public cloud and hybrid cloud deployment models with suitable examples.	10 Marks	L2	C01
Or					
13.	a.	Elaborate the Limitations of cloud computing.	10 Marks	L2	C01
Or					
14.	a.	Describe the services offered by Cloud with a suitable diagram.	10 Marks	L2	C01
Or					
15.	a.	Sketch and explain the functionalities in Taxonomy of Virtualization Techniques in detail.	10 Marks	L3	C02
Or					
16.	a.	Illustrate the need for a hypervisor and its types with a neat diagram.	10 Marks	L3	C02
Or					
17.	a.	Illustrate the types of server virtualization, desktop virtualization, and data virtualization with suitable diagrams.	10 Marks	L3	C02
Or					
18.	a.	Illustrate the five levels of virtualization and explain their functionalities with suitable examples.	10 Marks	L3	C02
Or					
19.	a.	Apply Open SaaS concepts to explain customization in cloud-based applications.	10 Marks	L3	C03
Or					
20.	a.	Illustrate how load balancing improves performance in cloud computing with a suitable diagram.	10 Marks	L3	C03
Or					
21.	a.	Apply cloud-based NAS solutions to demonstrate how organizations can store, access, and share data efficiently.	10 Marks	L3	C04
Or					
22.	a.	Illustrate the advantages and disadvantages of cloud-based database solutions.	10 Marks	L3	C04
Or					
23.	a.	Examine the objectives of cloud security services.	10 Marks	L4	C06
Or					
24.	a.	Analyze the basic properties of S.M.A.R.T. and examine how each property contributes to effective goal setting and performance evaluation.	10 Marks	L4	C06
Or					
25.	a.	Analyze how VM architecture contributes to improving the strength of encryption protection with suitable examples.	10 Marks	L4	C05
Or					
26.	a.	Examine each stage of the VM deployment life cycle and analyze how improper handling at any stage can affect system performance and security.	10 Marks	L4	C05