



PRESIDENCY UNIVERSITY

BENGALURU

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

Date: 20- 05-2026

Time:01:00pm – 04:00pm

School: SOIS	Program: BCA	
Course Code: CSA3069	Course Name: Data Management Using Cloud	
Semester: IV	Max Marks: 100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05
Marks	24	26	24	26	-

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 resource pooling?	2 Marks	L1	C01
2.	Explain CapEx vs OpEx.	2 Marks	L2	C01
3.	What is data-intensive computing?	2 Marks	L1	C02
4.	Difference between MPI and task computing.	2 Marks	L2	C02
5.	Define reduce phase.	2 Marks	L1	C02
6.	Define multi-tenancy.	2 Marks	L1	C03
7.	What is RBAC?	2 Marks	L1	C03
8.	What is VoIP?	2 Marks	L1	C04
9.	Define resource group.	2 Marks	L1	C04
10.	What is sandbox environment?	2 Marks	L1	C04

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Illustrate virtualization in detail and analyze its role in enabling cloud computing environments.	20 Marks	L3	CO1
Or					
12.	a.	Discuss economics of cloud computing including cost components, CapEx vs OpEx, and cost optimization strategies.	20 Marks	L3	CO1
Or					
13.	a.	Discuss task-based programming and evaluate its advantages in cloud environments.	20 Marks	L3	CO2
Or					
14.	a.	Explain task computing architecture in detail and analyze its working flow with suitable examples.	20 Marks	L2	CO2
Or					
15.	a.	Illustrate shared responsibility model and analyze its significance in cloud environments.	20 Marks	L3	CO3
Or					
16.	a.	Discuss SaaS security and evaluate data protection techniques such as encryption and access control.	20 Marks	L3	CO3
Or					
17.	a.	Explain cloud communication services and analyze their types with real-world applications.	20 Marks	L2	CO4
Or					
18.	a.	Describe Google App Engine architecture and evaluate its key features and advantages.	20 Marks	L3	CO4