



PRESIDENCY UNIVERSITY

BENGALURU

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

Date: 19-05-2026

Time: 09:30am – 12:30pm

School: SOIS	Program: BCA-DS	
Course Code: CSA2509	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 rapid elasticity?	2 Marks	L1	C01
2.	Explain CapEx vs OpEx.	2 Marks	L2	C01
3.	Define message passing.	2 Marks	L1	C02
4.	Difference between MPI and task computing.	2 Marks	L2	C02
5.	What is MapReduce?	2 Marks	L1	C02
6.	What is SLA?	2 Marks	L1	C03
7.	What is shared responsibility model?	2 Marks	L1	C03
8.	Define datastore in GAE.	2 Marks	L1	C04
9.	What are messaging services?	2 Marks	L1	C04
10.	What is Azure SQL Database?	2 Marks	L1	C04

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Illustrate different cloud deployment models and justify their suitability for various business scenarios.	20 Marks	L3	C01
Or					
12.	a.	Analyze the relationship between virtualization and cloud computing with supporting diagrams.	20 Marks	L3	C01
13.	a.	Explain data-intensive computing architecture and analyze how it handles large-scale data processing.	20 Marks	L2	C02
Or					
14.	a.	Explain MapReduce programming model in detail and analyze its working with a suitable example.	20 Marks	L2	C02
15.	a.	Discuss major cloud security challenges and evaluate possible solutions to mitigate them.	20 Marks	L3	C03
Or					
16.	a.	Explain encryption techniques and analyze their role in securing cloud data (data-at-rest and data-in-transit).	20 Marks	L2	C03
17.	a.	Illustrate additional cloud services such as storage, AI/ML, and CDN with practical use cases.	20 Marks	L3	C04
Or					
18.	a.	Describe VM setup and configuration in cloud and analyze its importance in application deployment.	20 Marks	L3	C04