



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.

End - Term Examinations –May/June 2026

Date: 19-05-2026

Time: 09:30am – 12:30pm

School : SOCSE (Specialization)	Program: B.Tech. COMPUTER SCIENCE AND TECHNOLOGY BIG DATA (CBD)	
Course Code: CBD2500	Course Name: Cloud Computing for Big Data	
Semester: IV	Max Marks: 100	Weightage: 50%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	20	20	20	20	20

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.	List the three cloud service models.	2 Marks	L1	CO1
2.	Identify what is meant by a hybrid cloud.	2 Marks	L1	CO1
3.	Define usage-based pricing in cloud computing.	2 Marks	L1	CO1
4.	What is a hypervisor.	2 Marks	L1	CO2
5.	Describe para-virtualization.	2 Marks	L1	CO2
6.	Define server consolidation.	2 Marks	L1	CO2
7.	What is meant by object storage.	2 Marks	L1	CO3
8.	Define Google Cloud Storage (GCS).	2 Marks	L1	CO3
9.	Mention the advantages of running Spark on cloud.	2 Marks	L1	CO4
10.	List one difference between Hadoop and Spark.	2 Marks	L1	CO4

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Describe the cloud service models (IaaS, PaaS, SaaS) with suitable examples and a comparison.	10 Marks	L2	C01
	b.	Explain cloud security and compliance challenges.	10 Marks	L2	C01
Or					
12.	a.	Summarize the major challenges and issues in cloud computing.	10 Marks	L2	C01
	b.	Compare IaaS, PaaS, and SaaS with suitable examples.	10 Marks	L2	C01
13.	a.	Classify and illustrate different types of virtualization with suitable examples (Hardware, Network, Storage, Memory, Data, Desktop).	10 Marks	L2	C02
	b.	Compare virtual machines and containers.	10 Marks	L2	C02
Or					
14.	a.	Explain the concept of virtualization to explain its need, advantages, and disadvantages in real-world scenarios.	10 Marks	L2	C02
	b.	Explain Google Cloud Platform (GCP) services and global infrastructure.	10 Marks	L2	C02
15.	a.	Illustrate the architecture of HDFS with a neat diagram.	10 Marks	L3	C03
	b.	Classify the difference between a Data Lake and a Data Warehouse.	10 Marks	L3	C03
Or					
16.	a.	Examine a Distributed File System (DFS) and its need in cloud environments.	10 Marks	L3	C03
	b.	Determine the features and storage classes of Google Cloud Storage (GCS).	10 Marks	L3	C03
17.	a.	Break down the architecture and features of Google BigQuery.	10 Marks	L4	C04
	b.	Examine Google Cloud Dataproc and its role in big data processing using a use case.	10 Marks	L4	C04
Or					
18.	a.	Examine the concept of serverless analytics on cloud with an example.	10 Marks	L4	C04
	b.	Differentiate AWS Athena and Google BigQuery in a real-world scenario.	10 Marks	L4	C04