Code No.: DS623PE

R20

H.T.No.

R 8

CMR ENGINEERING COLLEGE: : HYDERABAD **UGC AUTONOMOUS**

III-B.TECH-II-Semester End Examinations (Regular) - May- 2023 DATA ENGINEERING

(CSD)

[Max. Marks: 70] [Time: 3 Hours]

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 20 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

	arries to marks and may be a series of the s	
	PART-A	(20 Marks)
	and an	[2M]
1. a)	List drawbacks of RDBMS.	[2M]
b)	Define OLAP and OLTP in DBMS.	[2M]
c)	What are 4 Vs of Big Data?	[2M]
d)	What is cloud computing and give an example of cloud provider?	[2M]
e)	Define Idempotency and List idempotent methods in REST API.	[2M]
f)	Differentiate between Docker Image and Docker Container.	
g)	Define ACID properties.	[2M]
h)	What is MPP database and give an example?	[2M]
i)	List types of Machine Learning techniques?	[2M]
	What is the difference between Lambda Architecture and Kappa Architecture?	[2M]
j)	What is the difference between Earne and	
	PART-B	(50 Marks)
		[10M]
2.	Compare and Contrast SQL and NO SQL Databases. OR	
	CD the standard of data storage and their advanta	ages [10M]
3.	Explain the importance of Data storage and types of data storage and their advanta	0
	and disadvantages.	
		[10M]
4.	Explain briefly about Dataware house Architecture.	[101.1]
	OR	[10M]
5.	Explain in detail about any 3 services of AWS.	[10141]
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6.	What is REST API and explain about architecture and principles of REST API?	[10M]
υ.	OR	
<i>a</i> \	Define Container Orchestration.	[2M]
7.a)	Why do we need container orchestration?	[3M]
b)	Why do we need container of chestration.	[5M]
c)	How Does Container Orchestration work and its benefits?	
	c and its components	[10M]
8.	Explain about data processing frameworks and its components.	, ,
	OR	[2M]
9.a)	What is Document Store database?	[8 M]
b)	Distinguish between HDFS and MongoDB.	[6,141]
-,		[M C]
10.a)	What is Data Processing?	[2 M]
b)	n 1 1 Character and constitute the analytics	[8 M]
U)	\cdot OR	
11 -5	Machine Journing and Deen Learning.	[5 M]
11.a)		[5 M]
b)	How Training and Testing data sets work in Material Testing data sets and the Material Testing data set and the Material Testing data sets and the Material	