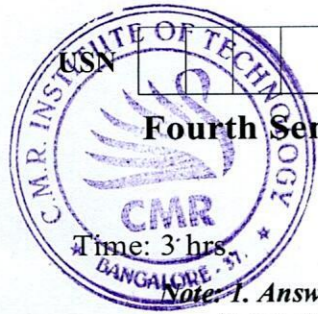


CBCS SCHEME

22MCA412



Fourth Semester MCA Degree Examination, Dec.2024/Jan.2025

Big Data Analytics

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

Module - 1			M	L	C
Q.1	a.	What is Big data? Explain in detail about the characteristics of Big data.	10	L1	CO1
	b.	Explain the Analytics process model with neat diagram.	10	L2	CO1
OR					
Q.2	a.	Explain the different techniques used in visual data exploration.	10	L2	CO1
	b.	Explain in detail about sampling in Big data.	10	L2	CO1
Module - 2					
Q.3	a.	Explain in detail about inter and trans firewall analytics.	10	L2	CO2
	b.	Write a note on Cloud and Big data.	10	L2	CO2
OR					
Q.4	a.	What is Crowd Sourcing Analytics? Explain different types of Crowd Sourcing.	10	L1	CO2
	b.	Summarize the two critical components of Hadoop and explain in detail with a neat diagram.	10	L2	CO2
Module - 3					
Q.5	a.	Write short note on Volunter computing and Grid computing.	10	L2	CO3
	b.	List the differences between RDBMS and Map reduce.	10	L2	CO3
OR					
Q.6	a.	Explain in detail about the Hadoop Eco system.	10	L2	CO3
	b.	Explain different Hadoop versions and releases.	10	L2	CO3
Module - 4					
Q.7	a.	Explain the Anatomy of file. Write with a neat diagram.	10	L2	CO4
	b.	Discuss about HDFS Federation with a neat diagram.	10	L1	CO4
OR					
Q.8	a.	Describe in detail about HDFS High availability with neat diagram.	10	L2	CO4
	b.	Explain the Anatomy of file read with neat diagram.	10	L2	CO4

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Module - 5					
Q.9	a.	Write a Java Mapreduce code to find the maximum temperature from weather data set.	10	L3	CO5
	b.	What is Map Reduce? Draw the neat diagram and explain the logical data flow in MapReduce.	10	L2	CO5
OR					
Q.10	a.	Explain in detail about scaling out.	10	L2	CO5
	b.	Write note on : i) Hadoop streaming ii) Hadoop Logs.	10	L2	CO5

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