R18

Code No: R18A0530

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B.Tech - II Semester Advance Supplementary Examinations, June 2023

Parallel and Distributed Computing

(CSE)

Roll No										

Time: 3 hours **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1	***A***	Write the issues present in parallel and distributed paradigms	**[7M]**
	B	What are the Applications and challenges of Parallel and Distributed Computing	**[7M]**
		OR	
2		Explain about the different Trends in Microprocessor Architectures	**[14M]**
		SECTION-II	
3		Discuss about Decomposition Techniques in Parallel Algorithm Design	**[14M]**
		OR	
4		Demonstrate about Block Array Distribution Schemes with examples	**[14M]**
		SECTION-III	
5		Explain the Performance Metrics for Parallel Systems with examples	**[14M]**
		OR	
6	***A***	What is the Effect of Granularity on Performance	**[7M]**
	B	Explain how to Building Granularity with a suitable example	**[7M]**
		SECTION-IV	
7	***A***	What are the Issues in Sorting on Parallel Computers	**[7M]**
	B	Write about Parallel Formulation in detail	**[7M]**
		OR	
8		Write and explain about Quick Sort Algorithm with an example	**[14M]**
		SECTION-V	
9		Explain about Sequential Search Algorithms with examples	**[14M]**
		OR	
10		Discuss in detail about BFS and DFS with neat diagrams.	**[14M]**

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R18

Code No: R18A0534

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B.Tech - II Semester Advance Supplementary Examinations, June 2023

Block Chain Technology

(CSE & IT)

Roll No										

Time: 3 hours **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1	***A***	Write the Current block chain uses? What are the Future block chain applications?	**[7M]**
	B	Discuss about the Major Components of CAP Theorem?	**[7M]**
		OR	
2	***A***	Differentiate Centralized and Decentralized systems?	**[7M]**
	B	Correlate CAP Theorem and Block Chain?	**[7M]**
		SECTION-II	
3	***A***	Discuss about Private Key Cryptography?	**[7M]**
	B	Discuss about Bit coin improvement proposals.	**[7M]**
		OR	
4	***A***	Write the importance of Public and Private Keys in Cryptography?	**[7M]**
	B	Write about consensus algorithms.	**[7M]**
		SECTION-III	
5	***A***	What is wallet in Bit coin? Explain in detail about different types of wallets.	**[7M]**
	B	Classify Different types of transactions in Bit coins?	**[7M]**
		OR	
6	***A***	Write the Procedures For Setting up a Bit Coin Node.	**[7M]**
	B	Explain About various Bit Coin improvement proposals.	**[7M]**
		SECTION-IV	
7	***A***	List Various precompiled contracts in Ethereum? Discuss about them?	**[7M]**
	B	What are the main building blocks of the Ethereum block chain? Explain?	**[7M]**
		OR	
8	***A***	How Messages are transferred by using Yellow Paper?	**[7M]**
	B	Discuss about the Ethereum Network?	**[7M]**
		SECTION-V	
9	***A***	Draw and Discuss about Hyper ledger reference architecture?	**[7M]**
	B	Write the steps to create a Saw tooth network?	**[7M]**
		OR	
10	***A***	How to handle consensus on blocks of identifiers? Discuss?	**[7M]**
	B	What are the Key components in Corda Architecture? Elaborate them?	**[7M]**

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R18

Code No: R18A0529

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

IV B.Tech - II Semester Advance Supplementary Examinations, June 2023

Big Data Analytics

(CSE)

Roll No										

Time: 3 hours **Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

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SECTION-I

1	***A***	Differentiate Data Warehouse and Hadoop Environment	**[7M]**
	B	Define Big Data Analytics. Explain Classification of Analytics in detail.	**[7M]**
		OR	
2	***A***	What are the Challenges of Big Data Analytics? And explain why is it important?	**[7M]**
	B	Define Data Science. Illustrate Basically Available Soft State Eventual Consistency in detail.	**[7M]**

SECTION-II

3	***A***	Explain the architecture of Hadoop Distributed File System in detail.	**[7M]**
	B	Explain Processing Data with Hadoop in detail.	**[7M]**
		OR	
4	***A***	Describe Hadoop Ecosystem in detail.	**[7M]**
	B	Explain Hadoop in detail.	**[7M]**

SECTION-III

5	***A***	List and explain the Terms used in RDBMS and Mongo DB.	**[7M]**
	B	What is CQLSH? Explain its commands.	**[7M]**
		OR	
6	***A***	Explain the purpose of Keyspaces in Cassandra.	**[7M]**
	B	How to use a counter? Explain Querying System Tables in detail.	**[7M]**

SECTION-IV

7	***A***	Explain MapReduce – Partitioner.	**[7M]**
	B	List and explain Data Types used in Hive.	**[7M]**
		OR	
8	***A***	Explain Aggregations, Group by and Having with examples.	**[7M]**
	B	Explain Hive User Defined Functions with examples.	**[7M]**

SECTION-V

9	***A***	Illustrate Apache Pig Architecture with a neat sketch.	**[7M]**
	B	Explain Apache Pig Eval Functions in detail.	**[7M]**
		OR	
10	***A***	Explain Apache Pig Relational Operators in detail.	**[7M]**
	B	Write word count program using Pig.	**[7M]**

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