CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS IV-B.TECH-II-Semester End Examinations (Regular) - April - 2025 **BLOCK CHAIN TECHNOLOGIES** (CSM)

[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.

	PART-A	(20 Marks)
1. a)	Define Blockchain.	[2M]
b)	What are different types of Blockchain?	[2M]
c)	What are the technologies works behind the Blockchain Technology?	[2M]
d)	Define Public key.	[2M]
e)	What is relation between Bitcoin and cryptocurrency?	[2M]
f)	What is the payment system of bitcoin?	[2M]
g)	Define precompiled contracts.	[2M]
h)	What is ethereum in blockchain?	[2M]
i)	What is the purpose of IoT in blockchain?	[2M]
j)	What is the purpose of a block in blockchain?	[2M]
	PART-A	(20 Marks)
2.	Explain the History of Blockchain.	[10M]
3.	OR What are the benefits and limitations of Blockchain?	[10M]
5.	what are the benefits and minitations of Blockenant?	
4.	Compare centralized vs Decentralized vs Distributed System with diagrams.	[10M]
	OR	
5.	List out what are the methods of decentralization.	[10M]
6.	Describe about Bitcoin working mechanism with example.	[10M]
	OR	
7.	Explain about Hierarchical deterministic wallets.	[10M]
8.	Explain about Ricardian contract properties.	[10M]
01	OR	[10112]
9.	What are the elements of ethereum blockchain?	[10M]
10.	List out the applications of Blockchain in detail.	[10M]
	OR	
11.	Discuss about the benefits IoT in government.	[10M]

[Max. Marks: 70]

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