

Code No.: AI864PE

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV-B.TECH-II-Semester End Examinations (Advanced Supply) – June - 2025

BLOCK CHAIN TECHNOLOGIES

(CSM)

[Time: 3 Hours]

[Max. Marks: 70]

**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 Distributed system. [2M]
- b) What is public block chain? [2M]
- c) Define Cryptography. [2M]
- d) Differentiate Public key and private key. [2M]
- e) What is Litecoin? [2M]
- f) Define Zcash. [2M]
- g) Define smart contract. [2M]
- h) What is ethereum protocol? [2M]
- i) What is the purpose of IoT in block chain? [2M]
- j) List out any two benefits IoT in Healthcare. [2M]

**PART-B**

**50Marks**

2. Discuss about CAP theorem in block chain. [10M]
- OR**
3. List out what are the benefits of Block chain. [10M]
4. What is role of Cryptography in block chain? [10M]
- OR**
5. What are the methods of decentralization? [10M]
6. Describe about Namecoin, litecoin and primecoin. [10M]
- OR**
7. Write the working procedure of bitcoin transaction. [10M]
8. Explain about Ricardian contract with diagram. [10M]
- OR**
9. What are the elements of ethreuem blockchain? [10M]
10. What is the role of IoT in media? [10M]
- OR**
11. List out what are the applications of IoT in finance. [10M]

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