

Code No.: CS851PE

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H.T.No.

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CMR ENGINEERING COLLEGE: : HYDERABAD

UGC AUTONOMOUS

IV–B.TECH–II–Semester End Examinations (Regular) – April - 2025

BLOCKCHAIN TECHNOLOGY

(CSE)

[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) How does a crypto currency transaction work? [2M]
- b) Why is decentralization a key feature of blockchain? [2M]
- c) What is digital identity verification in blockchain? [2M]
- d) Explain the concept of blockchain neutrality. [2M]
- e) How can block chain be used in genomics research? [2M]
- f) Compare Bit coin MOOCs with traditional online learning platforms. [2M]
- g) How does tokenizing assets improve transaction security? [2M]
- h) Why is a coin drop an effective public adoption strategy? [2M]
- i) Explain the impact of business model challenges in block chain-based companies. [2M]
- j) Why is government regulation necessary for block chain technologies? [2M]

PART-B

(50 Marks)

2. Examine the advantages and limitations of using blockchain for digital currencies. [10M]
- OR**
3. Evaluate the effectiveness of blockchain in preventing fraud in financial transactions. [10M]
4. Demonstrate the application of block chain in preventing identity theft. [10M]
- OR**
5. Assess the benefits and drawbacks of using blockchain for digital asset transactions. [10M]
6. Illustrate how Folding Coin incentivizes distributed computing projects. [10M]
- OR**
7. Design a block chain-based system for securely storing genomic data. [10M]
8. Analyze the impact of demurrage currency on financial stability. [10M]
- OR**
9. Propose a new token-based economy for global trade. [10M]
10. Analyze the impact of business model challenges on block chain start-ups. [10M]
- OR**
11. Design a new regulatory framework that balances innovation and security in block chain [10M]
