

Code No.: DS731PE

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**CMR ENGINEERING COLLEGE: : HYDERABAD  
UGC AUTONOMOUS**

**IV–B.TECH–I–Semester End Examinations (Supply) - April- 2025**

**BLOCK CHAIN TECHNOLOGY**

**(CSD)**

**[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) What exactly does blockchain do? [2M]
- b) What does a block contain in blockchain? [2M]
- c) State the importance of designing blockchain industry. [2M]
- d) How does the proof-of-existence function work? [2M]
- e) Label the role of Genome coin, Genomic Research coin. [2M]
- f) Describe the bitcoin MOOCs. [2M]
- g) List out the benefits of crypto adoption. [2M]
- h) How to generate Campus Coin? [2M]
- i) State the biggest barriers to bitcoin adoption. [2M]
- j) Name the partial proposed solutions to the technical issues related to the blockchain. [2M]

**PART-B**

**(50 Marks)**

2. Define cryptocurrency. Elucidate the working principle of cryptocurrency. [10M]
- OR**
3. How does the crowdfunding platforms powered by blockchain technology remove the need for an intermediary third party? Discuss. [10M]
  4. Examine the services provided by OneName, BitID and Bithandle. [10M]
- OR**
5. Elaborate the role of digital art in blockchain attestation services. [10M]
  6. As part of the global public health, assess the role of bitcoin for contagious disease relief. [10M]
- OR**
7. Interpret the role of blockchain technology as a universal order-of-magnitude progress model. [10M]
  8. Analyze the concepts of currency, token, and tokenizing in detail [10M]
- OR**
9. Outline the extensibility of demurrage concept and summarize the features of demurrage currencies. [10M]

10. Summarize and discuss the technical challenges related to the blockchain. [10M]

**OR**

11. How government regulation unfolds could be one of the most significant factors and risks in whether the blockchain industry will flourish into a mature financial services industry? Discuss. [10M]

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