

**III B. TECH II SEMESTER REGULAR EXAMINATIONS MAY - 2023
FOUNDATIONS OF BLOCKCHAIN TECHNOLOGY****(CSE - INTERNET OF THINGS, CYBER SECURITY INCLUDING BLOCKCHAIN TECHNOLOGY)**

Time: 3 hours

Max. Marks: 70

Note: Answer **ONE** question from each unit (**5 × 14 = 70 Marks**)
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## UNIT-I

1. a) Explain briefly the concept of decentralization with a neat [7M]  
diagram in Blockchain Technology.
- b) Explain CAP Theorem with respect to Blockchain [7M]  
Technology?

(OR)

2. a) Write the Current block chain uses? What are the Future [7M]  
block chain applications?
- b) Describe the process of accumulation of blocks in [7M]  
Blockchain Technology?

## UNIT-II

3. a) Differentiate Standard, Informational and Process Bit coin [7M]  
improvement proposals.
- b) Write short notes on line interfaces. [7M]

(OR)

4. a) Write the importance of Public and Private Keys in [7M]  
Cryptography?
- b) "Authentication is Very much important for Security". [7M]  
Comment on it?

## UNIT-III

5. a) Explain Transaction life cycle of Bit coin with a neat [7M]  
diagram.
- b) Explain different types of transactions in Bit coins. [7M]

(OR)

6. a) Write the Procedures for setting up a Bit Coin Payment. [7M]
- b) What do you mean by a wallet and explain the purpose of [7M]  
using it in blockchain technology.

UNIT-IV

7. a) List Various Precompiled contracts or components in [7M]  
Ethereum and discuss about them in detail.
- b) What are the main building blocks of the Ethereum [7M]  
blockchain? Explain?

(OR)

8. a) How Messages are transferred by using Yellow Paper? [7M]
- b) What are the Major Applications developed on Ethereum? [7M]  
Discuss about them?

UNIT-V

9. a) Summarize different privacy issues in web security and [7M]  
explain them in detail
- b) Differentiate the Major Issues in Transport layer and [7M]  
Secure Socket Layer?

(OR)

10. a) Apply Fire wall design principles for building an Secure [7M]  
System. Illustrate with an examples.
- b) Distinguish Viruses and its related threads with clear [7M]  
examples?

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