

Syllabus

UNIT-I Introduction to Blockchain: Need for Distributed Record Keeping,Blockchain architecture, blockheader detailed design, Abstract Models for Blockchain, Proof of Work (PoW), liveness and fairness, Proof of Stake (PoS) based Chains, Hybrid models (PoW + PoS); Types of Blockchain.

UNIT-III Introduction to cryptographic basics for cryptocurrency - a short description of Hashing, digital signature schemes, encryption schemes and elliptic curve cryptography, verifiable random functions.

FAQ

Que: How many units are coming in CT-1

Ans: Unit 1 & Unit 3

Que: Where we can get the notes for writing answers

Ans: Refer Book that I have already provided

Que: How long should be the answer written

Ans: For 8 marks you should fill 3 pages, and for 4 marks 1 and a half page. Include diagram where it's necessarily.

Que: What is meant by 3 pages for answer writing

Ans:



NOTE:

- **These questions are for reference purpose**
- **The questions which are highlighted must be your top priority for preparing**
- **Don't be dependent on question bank, prepare for exam apart from given question provided in question bank, always refer syllabus**

UNIT 1

1. What are different type of blockchain?
2. What is the advantage of distributed record keeping?
3. Discuss Blockchain architecture and explain them also write advantage and disadvantages
4. Discuss and differentiate PoW and PoS
5. Write benefits of blockchain
6. What are the key characteristics of blockchain architecture?
7. What is distributive ledger technology, also write its feature
8. How DLT can replace traditional book-keeping method
9. Explain proof of work also write challenges with PoW
10. What is proof of stake? How does proof of stake work, also write challenges
11. Write the advantages of PoS
- 12 Write short note on
 - Block header detailed design

UNIT 3

1. What do you mean by cryptocurrency?
2. Discuss various hashing techniques in brief?
3. Write short note on digital signature
4. Explain elliptic curve cryptography with example.
5. Explain some best know cryptocurrency
6. Explain fiat currency (traditional currency) Vs crypto currency
7. How does crypto currency work? How to buy crypto currency also write advantage and disadvantages of crypto currency
8. How to store crypto currency
9. Short note on
verifiable random functions.