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Total No. of Questions : 6]

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**EY-248**

**B. Tech. VII<sup>th</sup> Semester CSE**

**Examination, 2023-24**

**Core Elective-III (Block Chain Technology)**

**Paper - CS - 703**

**Time : 3 Hours]**

**[Maximum Marks : 60**

**Note : - Attempt all questions. All questions carry equal marks.**

**1. Explain briefly :-**

**2×5=10**

(i) Hashing

(ii) Security Aspect

(iii) Network

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**(1)**

**P.T.O.**

(iv) Block Mining

(v) Model

2. (a) What are techniques of Block in Block chain technology? Explain.
- (b) Explain Public Block Chain and its features.

OR

- (a) Define Transactional System in Block Chain with example?
- (b) Explain infrastructure of Private Blockchain.
3. (a) What are term cryptography system? Explain.
- (b) Explain the managing application in Hashing Function.

OR

- (a) What is Model Authentication in security?
- (b) What do you mean by merkle tree?
4. (a) Explain the term Bit Coin Network.
- (b) What are Block Propagation and Block relay? Explain.

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OR

- (a) Explain concepts of P2P Bit Coin Network.
- (b) Define Transaction process in Bitcoin with its design.
5. (a) What is concept of Permission Block Chain?
- (b) What is application of BFT Algorithm?

OR

- (a) Explain execute contract in Block Chain and its features.
- (b) Explain Byzantine general problem in Blockchain.
6. (a) What is Hyper Ledger Fabric?
- (b) Explain concept of Ethereum in Block chain.

OR

- (a) Explain Architecture of Hyper ledger.
- (b) What do you mean by transaction validation system in Ethereum?

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