

## **Blockchain Technology – Curriculum End Sem Exam (Dec 2022)**

Blockchain definitions, Bitcoin invention, Blockchain evolution

Security Primitives and its use

Blockchain Technology –Domain, keywords, symbols

Altcoins, Fiat v/s Crypto currency, Un-Censorable market place, Crypto Price fluctuations

Virtual Assets Travel rule

Energy usage – crypto v/s banking system

Ethereum, Smart contracts and EVM

Smart contract use cases: DeFi, DAO, NFT etc.

Bitcoin and Ethereum

Blockchain Components, Transactions and Wallet addresses

Consensus protocols – PoW and PoS

Securing Blockchain – Mining, Double spending, Handling exceptions – Forks

Centralized v/s Decentralized Trust

Blockchain properties and use cases

Web3, Metaverse, Token Economy, DAO, Stable coins

Smart Contracts – coding and implementation

Consensus protocols, Blockchain Oracles

Different Blockchains (Public, Permissioned, Private, BFT and PBFT)

Hyper Ledger, IOTA

R3 CORDA

Proof of Reserve

More use cases

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