

Subject: Digital Currency & Blockchain Technology
Subject Code: OEC301

Marks: 60

Time: 2 Hrs

- NB:** 1) Question No.1 is compulsory.
2) Attempt any 3 questions out of remaining 5 questions.
3) Assume suitable data if necessary and justify the same.

Q1. Answer any 5 from the following questions.

- A) What are the characteristics of traditional fiat currencies? 3
B) Define digital money. Differentiate between e-money and virtual currency. 3
C) List three advantages and three challenges of digital money. 3
D) What is a cryptocurrency exchange? Name any two exchanges. 3
E) Define mining in Bitcoin and state its importance. 3
F) Differentiate between public and private blockchain. 8
- Q2 A) Explain the evolution of money from barter systems to digital currencies. 7
Q2 B) Explain the role of Ether (ETH) in the Ethereum ecosystem. 8
- Q3 A) Differentiate between traditional payment systems and digital payment systems. 8
Q3 B) Explain the structure of blockchain (blocks, nodes, hashing) and discuss how it ensures data security and decentralization. 7
- Q4 A) Describe the operation of cryptocurrency markets. 8
Q4 B) Explain Bitcoin transactions with a neat diagram. 7
- Q5 A) Describe the role of public and private keys and different wallet types. 8
Q5 B) Explain the concept and benefits of smart contracts. Write any three real-world smart contract applications in Finance/Commerce. 7
- Q6 A) Explain the global regulation of digital currencies and the ethical and social impacts of Blockchain. 8
Q6 B) Explain the economic implications and global adoption trends of cryptocurrencies. 7