

BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)
B.Tech.Sem - VIII COMPUTER SCIENCE & ENGINEERING : WINTER : 2024
SUBJECT: ITC-VI: BLOCK CHAIN & DIGITAL CURRENCY

Day : Tuesday
Date : 26/11/2024

W-24354-2024

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Assume suitable data, if necessary.
- 4) Draw neat and labeled diagrams, **wherever necessary**.

- Q.1 Explain what Blockchain technology is. What are the benefits and limitation of Blockchain technology? (10)
- OR**
- Q.1 What is distributed DBMS? What are the limitations of Distributed DBMS? (10)
- Q.2 Explain core components of Blockchain. (10)
- OR**
- Q.2 Explain permissioned and model of Blockchain. (10)
- Q.3 What is Distributed ledger Technology (DLT)? Explain. (10)
- OR**
- Q.3 What is Genesis block in Bitcoin? Explain. (10)
- Q.4 Explain smart contracts in Blockchain. (10)
- OR**
- Q.4 Explain merkle tree. How does the merkle tree works? (10)
- Q.5 Write a note on sandbox Blockchain. (10)
- OR**
- Q.5 Write a note on R3 Corda. (10)
- Q.6 Consider the supply-chain finance and mention some of its advantages in Blockchain and the ways in which Blockchain boosts supply-chain finance. (10)
- OR**
- Q.6 Write in detail about the how the food industry is benefited by using Blockchain. (10)

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