

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

Day : Friday  
Date : 31/05/2024

S-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 various Blockchain categories – Public, Private and Consortium. (10)

OR

Q.1 What is distributed ledger? Specify the purpose of distributed ledger with an example. (10)

Q.2 Explain core components of Blockchain in detail. (10)

OR

Q.2 Explain permissioned and permission-less Blockchain. (10)

Q.3 Explain Token with respect to crypto-security. (10)

OR

Q.3 Explain Bitcoin mining in detail. (10)

Q.4 Explain unspent transaction output (UTXO) in detail (10)

OR

Q.4 Explain various types of Accounts with respect to Ethereum cryptocurrency. (10)

Q.5 Write a note on cloud-based Blockchain. (10)

OR

Q.5 Explain following Blockchain network protocol: (10)

- 1) Ripple
- 2) Stellar

Q.6 Explain Any health-care related block-chain use cases with suitable diagram. (10)

OR

Q.6 Explain following block-chain use-case with an example: Voting and Election. (10)

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