

**BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)**  
**B. Tech. Sem - VIII CS&E : SUMMER : 2025**  
**SUBJECT: ITC-VI: BLOCK CHAIN & DIGITAL CURRENCY**

Day : Monday  
Date : 02/06/2025

**S-25614-2025**

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

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagram **WHEREVER** necessary.
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Q.1 Explain various block chain categories: Public, Private, Consortium. [10]

OR

Q.1 What is distributed DBMS? What are the limitations of distributed DBMS? [10]

Q.2 Explain core components of block chain in detail. [10]

OR

Q.2 Explain permissioned and permission-less block chain. [10]

Q.3 Explain Token with respect to crypto-currency. [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 block chain. [10]

OR

Q.5 Explain following block chain network protocol: [10]  
a) Ripple                      b) Stellar

Q.6 Explain any Health-Care related block chain use cases with suitable diagram. [10]

OR

Q.6 Explain following block chain use cases: Voting and election. [10]

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