

Total No. of Questions : 8]

SEAT No. :

PD4677

[Total No. of Pages : 2

[6404]-183

**B.E. (Information Technology)
BLOCKCHAIN TECHNOLOGY**

(2019 Pattern) (Semester - VIII) (Elective - VI) (414452D)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume suitable data, if necessary.

Q1) a) Explain the components of Ethereum Ecosystem. [6]

b) Write a note on Ethereum programming languages. [6]

c) Explain Blockchain platform with blocks & blockchain. [6]

OR

Q2) a) What is Ethereum? Explain Features of Ethereum. [9]

b) What is Smart contract? How smart contract work? [9]

Q3) a) What is Hyper ledger and how does it work? [6]

b) State and explain the benefits of Hyper ledger fabric. [6]

c) Draw and Explain the architecture of Hyper ledger fabric system. [6]

OR

Q4) a) What is Hyper ledger? Explain Features of hyper ledger blockchain? [9]

b) Explain the differences between Ethereum and Hyper ledger blockchain. [9]

P.T.O.

- Q5)** a) What is Tokenization? Explain the technology behind Tokenization. [6]
b) How blockchain tokenization can help in enterprise systems? Elaborate. [6]
c) Describe the Consensus mechanism in brief. [5]

OR

- Q6)** a) State and explain different types of Consensus algorithm. [6]
b) Write a short note on: [6]
i) Tokenizing Shares and Fund Raising
ii) Challenges to Tokenization.
c) What is Tokenization? Explain its benefits? [5]

- Q7)** a) Discuss any two applications of Blockchain. [5]
b) Explain merits and demerits of Blockchain. [6]
c) Write use case of Blockchain for Health Insurance. [6]

OR

- Q8)** a) Explain the risk and limitations of blockchain: Privacy & Security Risks. [5]
b) Explain the benefits of blockchain in various scenarios. [6]
c) Write use case of Blockchain for Supply chain Financing. [6]

x x x