

Total No. of Questions : 8]

SEAT No. :

P6553

[Total No. of Pages : 2

[6181]-103

B.E. (Computer Engineering)

BLOCKCHAIN TECHNOLOGY

(2019 Pattern) (Semester - VII) (End Semester) (Elective) (410243)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Attempt Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*
- 2) Figures to the right side indicate full marks.*
- 3) Neat diagram must be drawn wherever necessary*
- 4) Assume suitable data if necessary*

Q1) a) Explain any two **[6]**

- i) R3
- ii) Ethereum
- iii) Hyperledger
- iv) Corda

b) Explain Proof of work with example. **[6]**

c) What is Byzantine General Problem? Explain its significance. **[6]**

OR

Q2) a) Explain any two Blockchain platforms. **[6]**

- i) Public
- ii) Private
- iii) Consortium

b) Explain proof of stake with example. **[6]**

c) What is consensus in Blockchain? **[6]**

Q3) a) Discuss the concept of Cryptowallets? **[6]**

b) Discuss types of cryptocurrency? **[6]**

c) What is Metamask? **[5]**

OR

P.T.O.

- Q4)** a) Compare Coinbase and Binarance. [6]
b) What is the relevance of Crypto Usage. Discuss with example. [6]
c) What is bitcoin? Explain in detail. [5]

- Q5)** a) What is ethereum? What are the types of ethereum? [6]
b) Explain SWARM (Decentralized storage platform) in detail. [6]
c) What is the concept of smart contract? Discuss its types. [6]

OR

- Q6)** a) What is the significance of EVM(Ethereum Virtual Machine) [6]
b) Explain Whisper(Decentralized Messaging platform) [6]
c) Discuss how smart contracts are implemented using solidity. [6]

- Q7)** a) Discuss any use case of Blockchain integration with any other domain like cloud. [6]
b) Explain use of Blockchain in Energy and utilities. [6]
c) Explain use of Blockchain in health sector. [5]

OR

- Q8)** a) Discuss any use case of Blockchain integration with any other domain like Internet of things etc. [6]
b) What is the significance of adaption of Blockchain in banking and financial services. [6]
c) Explain any one application of Blockchain in Government sector. [5]

