

Total No. of Questions : 8]

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SEAT No. :

[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

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- Q4)** a) Compare Coinbase and Binance. [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 contact? 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]