

Total No. of Questions : 8]

SEAT No. :

P-479

[Total No. Of Pages : 2

[6003]-587

T.E. (Electronics & Telecommunication)

(Honors)

Decentralize & Blockchain Technologies

(2019 Pattern) (Semester-II) (304183)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates :

- 1) *Attempt 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 indicates full marks.*

Q1) a) What is consensus algorithm? Explain any one type of consensus algorithm in detail. **[6]**

b) With the help of a neat sketch, define the Proof of Elapsed Time (PoET). **[6]**

c) Explain terms i) Proof of Activity ii) Proof of Burn. **[6]**

OR

Q2) a) Describe scaling process in Ethereum. **[6]**

b) Explain the terms i) Ethereum Clients ii) Ethereum Wallets **[6]**

c) What is the Difference Between Bitcoin and Ethereum Blockchain? **[6]**

Q3) a) What is Proof of stake? Narrate with example. **[6]**

b) What are hash functions and Hash puzzles? **[6]**

c) What are Blocks in a Blockchain? Enlist the disadvantages of Proof of work. **[6]**

OR

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- Q4)** a) What Are the Real-World Use Cases of Ethereum? [6]
b) Write short note on Smart Contract. [6]
c) How are Ethereum keys generated? [6]

- Q5)** a) Express the selection process of Block-chain technology in detail. [8]
b) What are the most important opportunities for deploying blockchain technology in business? Explain one in detail. [9]

OR

- Q6)** a) What are the factors to consider when choosing Blockchains? Explain two factors in detail. [8]
b) What is the goal of blockchain? How does blockchain help in decision making? [9]
- Q7)** a) Explain how blockchain used in Medical record management system? [8]
b) Why do we need Block-chain? Explain private Block-chain Network in detail. [9]

OR

- Q8)** a) How does IoT work with block-chain? Enlist Benefits of IoT and block-chain. [8]
b) Write short note on future of Block-chain, along with one application. [9]

