

Total No. of Questions : 8]

SEAT No. :

P-6647

[Total No. of Pages : 2

[6181]-211

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

Q1) a) What is Ethereum? Give its comparison with Bitcoin. **[9]**

b) State and explain the various components of Ethereum. **[9]**

OR

Q2) a) Explain how smart contracts work. **[9]**

b) Enlist the different languages supported by Ethereum. What is bytecode in Ethereum, give its importance. **[9]**

Q3) a) What is Hyperledger fabric architecture and explain its components. **[9]**

b) What are hyperledger features? **[8]**

OR

Q4) a) Compare hyperledger with ethereum. **[9]**

b) Give the benefits of Hyperledger fabric. **[8]**

Q5) a) Explain, how blockchain tokenization can help in enterprise systems. **[6]**

b) What advantages does blockchain provide during tokenization? **[6]**

c) What are the benefits of tokenization for businesses and users? **[6]**

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OR

- Q6)** a) What are consensus mechanisms in blockchain and cryptocurrency?[6]
b) List out the challenges to tokenization in blockchain. [6]
c) What is tokenization using blockchain technology? [6]

- Q7)** a) Explain blockchain applications in financial sector. [6]
b) What are the benefits of blockchain in supply chain financing scenarios? [5]
c) What are the legal regulations for Blockchain in ransomware and money laundering [6]

OR

- Q8)** a) Explain blockchain applications in retail & banking services. [6]
b) Explain role of blockchain in IoT. [5]
c) Explain risks and limitations of blockchain in healthcare. [6]

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