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B.E. (Computer Engineering)
BLOCKCHAIN TECHNOLOGY
(2019 Pattern) (Semester - VII) (410243)

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 indicate full marks.*
4) *Assume suitable data, if necessary.*

Q1) a) Explain in detail following blockchain platforms. **[8]**

     i) Public

     ii) Private

     iii) Consortium

     iv) IoTA

   b) Discuss following consensus algorithms used in blockchain technology. **[6]**

     i) Proof of work

     ii) Proof of activity

   c) Explain proof of stake (POS)? **[4]**

<div align="center">OR</div>

Q2) a) Explain consensus in blockchain in details. **[8]**

   b) Explain in detail **[6]**

     i) Bitcoin

     ii) Ethereum

     iii) Hyperledger

   c) Discuss Byzantine General problem. **[4]**

<div align="center">OR</div>

Q3) a) List & explain types of crypto currency. **[6]**

    b) What is Metamask? Illustrate in detail. **[6]**

    c) Differentiate between coinbase & Binance. **[5]**

OR

Q4) a) What is cryptocurrency? Explain in detail. **[6]**

    b) Explain in detail crypto wallets. **[6]**

    c) Explain in detail Bitcoin. **[5]**

Q5) a) What is Ethereum? Explain. **[8]**

    b) Explain solidity in detail. **[6]**

    c) Discuss swarm Decentralized storage platform. **[4]**

OR

Q6) a) What is smart contract? Explain types of smart contracts. **[8]**

    b) Discuss whisper Decentralized Messaging platform. **[6]**

    c) Explain Ethereum Virtual Machine in detail. **[4]**

Q7) a) Explain Block chain applications in retail & banking services. **[6]**

    b) Explain role of blockchain in IoT. **[6]**

    c) Explain role of blockchain in Healthcare. **[5]**

OR

Q8) a) Discuss integration of blockchain with other domains. **[6]**

    b) Explain blockchain applications in financial services. **[6]**

    c) Explain application of blockchain government sector. **[5]**

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