

Reg. No:

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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech III Year I Semester Regular Examinations March-2023

CRYPTO CURRENCY AND INTRODUCTION TO BLOCK CHAIN TECHNOLOGY

CSE (Internet of Things and Cyber security Including Block Chain Technology)

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

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|-----|---------------------------------|-----|----|----|
| 1 a | What is Distributed Hash Table? | CC | L1 | 6M |
| b | Write about ASIC resistance. | CO1 | L2 | 6M |

OR

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|-----|---|-----|----|----|
| 2 a | Describe Applications of Hash Functions. | CO1 | L5 | 6M |
| b | Explain Popular Hash Functions in detail. | CO1 | L3 | 6M |

UNIT-II

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|-----|---|-----|----|----|
| 3 a | What is Blockchain? Explain. | CO2 | L1 | 6M |
| b | Explain the different types of Blockchains. | CO2 | L3 | 6M |

OR

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|-----|--|-----|----|----|
| 4 a | Explain the features of private and public block chain. | CO2 | L3 | 6M |
| b | Define Merkle trees. What is its importance in blockchain? | CO2 | L1 | 6M |

UNIT-III

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|-----|---|-----|----|----|
| 5 a | Compare Proof-of-work and Proof-of-stake. | CO3 | L6 | 6M |
| b | Explain Nakamoto consensus algorithm. | CO3 | L3 | 6M |

OR

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|-----|---------------------------------------|-----|----|----|
| 6 a | Explain Proof-of-Burn in detail. | CO3 | L3 | 6M |
| b | Explain Energy Utilization in detail. | CO3 | L3 | 6M |

UNIT-IV

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|-----|---------------------------------------|-----|----|----|
| 7 a | Write in detail about GHOST. | CO4 | L2 | 6M |
| b | Examine Bitcoins protocols in detail. | CO4 | L4 | 6M |

OR

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| 8 a | Discuss DAO in detail. | CO4 | L4 | 6M |
| b | What are the advantages and disadvantages of bitcoin? | CO4 | L1 | 6M |

UNIT-V

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|-----|--|-----|----|----|
| 9 a | Explain about roots of Bitcoin. | CO5 | L3 | 6M |
| b | Explain Black Market and Global Economy in detail. | CO5 | L3 | 6M |

OR

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|------|--|-----|----|----|
| 10 a | Explain Blockchain applications. | CO5 | L3 | 6M |
| b | Discuss about Cryptocurrency Exchange. | CO5 | L4 | 6M |

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