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

B.Tech IV Year II Semester Regular & Supplementary Examinations July-2021

CRYPTO CURRENCY & BLOCK CHAIN TECHNOLOGY

(Computer Science & Information 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? Explain. | L1 | 4M |
| | b Write about ASIC resistance. | L3 | 4M |
| | c Explain Applications of Hash Functions. | L4 | 4M |

OR

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|---|---|----|----|
| 2 | a Explain Popular Hash Functions in detail. | L3 | 6M |
| | b Discuss about Zero Knowledge Proof. | L2 | 6M |

UNIT-II

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|---|--|----|----|
| 3 | a Explain about need of Block chain. | L1 | 6M |
| | b What type of records can be kept in the Block chain? Is there any restriction on the same? | L4 | 6M |

OR

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|---|--|----|----|
| 4 | a What is the difference between public and private block chain? | L3 | 4M |
| | b List and explain the different types of Block chains. | L4 | 8M |

UNIT-III

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|---|--|----|----|
| 5 | a Explain the Proof-of-Stake in detail | L3 | 6M |
| | b How the Bitcoin network prevents sybil attack? Discuss | L4 | 6M |

OR

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|---|---|----|----|
| 6 | a What is Consensus algorithm? Explain | L3 | 6M |
| | b Explain the Sybil attack with examples. | L4 | 6M |

UNIT-IV

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|---|---|----|----|
| 7 | a What is Crypto currency? Explain | L1 | 6M |
| | b What are the advantages and disadvantages of bitcoin? | L1 | 6M |

OR

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|---|--|----|----|
| 8 | a How can you choose a Bitcoin wallet? Discuss | L1 | 6M |
| | b What is mean by DAO? Explain | L1 | 6M |

UNIT-V

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|---|---|----|----|
| 9 | a Write in detail about Cryptocurrency Regulation | L1 | 6M |
| | b Explain stake holders in crypto currency? | L4 | 6M |

OR

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|----|--|----|----|
| 10 | a Explain Black Market and Global Economy in detail. | L3 | 6M |
| | b What are the legal aspects in cryptocurrency? Explain. | L1 | 6M |

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