

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

B.Tech. IV Year I Semester Regular & Supplementary Examinations December-2024
CLOUD AND IOT SECURITY

(CSE with Specialization in Cloud Computing)

Time: 3 Hours

Max. Marks: 60

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

UNIT-I

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|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|----|
| 1 | <p>a Define cloud computing. Why is cloud necessary? Explain the benefits of cloud computing.</p> <p>b Outline the characteristics of cloud computing. What are the uses of cloud computing?</p> | CO1 | L1 | 6M |
| | | CO2] | L2 | 6M |

OR

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|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|
| 2 | <p>a With the neat sketch, Explain Key Elements of Cloud Computing.</p> <p>b Explain in detail issues in migrating to Cloud Computing.</p> | CO1 | L2 | 6M |
| | | CO1 | L2 | 6M |

UNIT-II

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|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|
| 3 | <p>a Explain in detail about Redundant 3-Tier Cloud Architecture.</p> <p>b Describe in detail about multi datacenter Cloud Architecture.</p> | CO2 | L2 | 6M |
| | | CO2 | L1 | 6M |

OR

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| 4 | <p>a What is meant by OS Virtualization? Explain it in detail with suitable diagram.</p> <p>b Prepare and list various pitfalls of virtualization.</p> | CO2 | L2 | 6M |
| | | CO2 | L3 | 6M |

UNIT-III

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| 5 | <p>a What is meant by defense in depth? How it works? What are the elements of DiD?</p> <p>b Discuss in detail about the cloud security policy implementation and decomposition.</p> | | L1 | 6M |
| | | CO4 | L2 | 6M |

OR

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| 6 | <p>a Compile Privacy and Compliance Risks in cloud security.</p> <p>b Discuss about the Information Privacy and Privacy laws.</p> | CO4 | L6 | 6M |
| | | CO4 | L2 | 6M |

UNIT-IV

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|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|
| 7 | <p>a Explain in detail about the power consumption, size and cost details of Raspberry Pi hardware platform.</p> <p>b List and explain various IoT application domains and related applications.</p> | CO5 | L2 | 6M |
| | | CO5 | L1 | 6M |

OR

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|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|
| 8 | <p>a Explain how data acquisition, object identification is done using RFID.</p> <p>b List and explain various emergent issues in usage of RFID in IOT.</p> | CO5 | L2 | 6M |
| | | CO5 | L1 | 6M |

UNIT-V

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|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|
| 9 | <p>a Illustrate various categories of IOT Risks and Challenges.</p> <p>b List and explain various IOT Security requirements.</p> | CO6 | L3 | 6M |
| | | CO6 | L1 | 6M |

OR

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|-----------|------------------------------------------------------------------------------------------------------------------------------------|-----|----|----|
| 10 | <p>a Express IOT Communication technologies in IOT Security.</p> <p>b Outline how the security in NFC entrusted?</p> | CO6 | L2 | 6M |
| | | CO6 | L2 | 6M |

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