

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

B.Tech III Year II Semester Regular Examinations August-2023
CLOUD and IoT SECURITY

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

- 1 a Define cloud computing. Why is cloud necessary? Explain the benefits of cloud computing. **CO1 L1 6M**
b Differentiate between private and public clouds. **CO1 L4 6M**

OR

- 2 a List Pros and Cons of Cloud Computing and Services. **CO1 L1 6M**
b Give your opinion on adoption of cloud by operators around the world. **CO1 L5 6M**

UNIT-II

- 3 a Explain with diagrammatic illustration about the cloud deployment model. **CO2 L2 6M**
b What is meant by Server Virtualization? Explain it in detail with suitable diagram. **CO2 L2 6M**

OR

- 4 a Explain in detail about Storage Virtualization and Network Virtualization. **CO2 L2 6M**
b Describe in detail about multi datacenter Cloud Architecture. **CO2 L1 6M**

UNIT-III

- 5 a What is meant by defense in depth? How it works? What are the elements of DiD? **CO3 L1 6M**
b How confidentiality of data is entrusted? Explain methods/functions employed. **CO3 L2 6M**

OR

- 6 a Explain the following security attacks:
i) Man in the Middle Attack ii) Replay iii) Social Engineering
iv) Password Guessing **CO3 L2 4M**
b Examine in detail about the CIA Triad. Deduce its importance in cloud security. **CO3 L4 8M**

UNIT-IV

- 7 a Illustrate about the Information and Communication Technology Infrastructure (ICT). **CO4 L2 6M**
b Discover various implications and challenges of IOT. **CO4 L2 6M**

OR

- 8 a Discuss in detail about the major features of Raspberry Pi hardware platform. **CO4 L2 6M**
b Explain in detail about the key features of Arduino hardware development platform. **CO4 L2 6M**

UNIT-V

- 9 Explain the following **CO5 L1 12M**
a Trust and Security from a device perspective.
b Trust and Secure key storage
c Identity Management

OR

- 10 a Examine security in long range low power IOT networks. **CO5 L3 6M**
b List various security threats in RFID Technology. **CO5 L1 6M**

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