

**RAMRAO ADIK INSTITUTE OF TECHNOLOGY, NERUL**  
(D Y Patil Deemed to be University)

**Program: Computer Engineering**

**End Semester Examination: B.Tech. Semester VI**

**Course Code: CECDLO6044**

**Course Name: Cyber Security**

**Time: 2 hour**

**Max. Marks: 60**

**Instructions: 1. All three questions are compulsory**

Que. No.	Question	Max. Marks	CO	BT
Q1	Solve any Four			
i)	How SaaS security risks impact your business?	5	1	BT1
ii)	Discuss the importance of the CIA in cyber security?	5	2	BT
iii)	Differentiate between virus and worm	5	3	BT
iv)	Explain the benefit of DMZ Network.	5	4	BT
v)	Describe Four C's of Cloud-Native Security	5	5	BT
vi)	Differentiate between AES and DES ciphers.	5	4	BT

Que. No.	Question	Max. Marks	CO	BT
Q2 A	Solve any Two			
i)	Discuss different types of threats in cyber security.	5	3	BT2
ii)	Differentiate between DevOps and DevSecOps.	5	5	BT4
iii)	What is Hybrid data center? What are the Hybrid Data Center Securities?	5	5	BT1
iv)	Summarize the role played by access control list as approach of security	5	2	BT2
Q 2 B	Solve any One			
i)	Apply RSA algorithm and find out value of d, if $p=7$ , $q=11$ and $e=13$ .	10	2	BT3
ii)	Discuss Compliance and Security Audit policies used at datacenters	10	6	BT2

Que. No.	Question	Max. Marks	CO	BT
Q3	Solve any Two			
i)	Discuss the attack scenario caused by the botnets with neat diagram.	10	3	BT2
ii)	Compare between MD5 and SHA hashing algorithm	10	2	BT4
iii)	How IDS works? How IDS is differ from IPS?	10	4	BT2

**Course Outcomes (CO) -Learner will be able to:**

CO1: To identify security challenges in cloud environment.

CO2: To apply the knowledge of different cryptographic algorithms.

CO3: To identify different Cyber-attacks and apply Cyber Security mechanism.

CO4: To apply different data protection techniques in data centers.

CO5: To demonstrate cloud security tools.

CO6: To interpret and appropriately apply the policies on Compliance and Security Audits for data centers.

BT1- Remembering, BT2- Understanding, BT3- Applying, BT4- Analyzing, BT5- Evaluating, BT6- Creating