**MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES (DEEMED TO BE UNIVERSITY)**

Faculty of Engineering and Technology

**Department of Computer Science and Engineering**

**Assignment Sheet-1**

**Subject Name: Security in Cloud Assignment number: 1**

**Subject Code: BCS-DS-701 Class / Semester: 7th**

**Max. Marks : 10 Time Allowed: 1 week**

|  |  |  |
| --- | --- | --- |
| **Q. No:**  1  2  3  4  5 | Define Vulnerability. Discuss the major vulnerabilities in core cloud computing technologies.  Discuss how an operating system authenticates its users.  Explain the factors that contribute to a Data Center security.  How would you ensure that cloud networks and connections are secure? Discuss with example.  Discuss tenant. How can u secure a multitenant environment? | **Mapped Cos**  CO2, L1  CO1,L2  CO2,L1  CO2,L2  C02,L2 |

**Prepared By: Approved By:**

**Neha Batra Dr. Tapas Kumar**

**Course Coordinator (Professor & HOD-CSE)**

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**Assignment Sheet-2**

**Subject Name: Security in Cloud Assignment number: 2**

**Subject Code: BCS-DS-701 Class / Semester: 7th**

**Max. Marks : 10 Time Allowed: 1 week**

|  |  |  |
| --- | --- | --- |
| **Q. No:**  **1**  2  3  4  5  6  7  8  9  10 | Explain the role of IAM in cloud computing.  What are DLP(data loss prevention) ? How IAM tools can provide identity context to dlp tools?  State some cyber-criminal tools. How IAM can help in reducing cyber attack?  Define the following terms :   1. Social engineering 2. Privilege escalation 3. Remote access 4. Data exfiltration.   How to secure your cloud? Explain with example.  Explain AAA architecture with diagram in details.  Explain the working process of message digest with example.  Explain PGP with frame format in details.  Use Key= cryptography and text” Hello how are you” and encrypt the text with the help of playfair cipher.  Explain Encryption and decryption with example in details. | **Mapped Cos**  CO4  CO4  CO4  CO3  C06  CO3  CO5  CO5  CO6  CO5 |

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