



PRIYADARSHINI COLLEGE OF ENGINEERING, NAGPUR
DEPARTMENT OF COMPUTER TECHNOLOGY
ACADEMIC SESSION: 2023-24 (ODD SEMESTER)
ASSIGNMENT-2

Subject	:	Cryptography & Network Security (BTCT701T)	Semester	:	VII - A and B
Subject Teacher	:	Prof. P. U. Tembhare Prof. Snehal Bhujade	Assignment No.	:	2
Unit	:	III, IV and V	Date of Display	:	13-10-2023

Course Outcomes:

After completing the course, students will be able to :

- CO1 :** Explain fundamental knowledge about the background of mathematics of asymmetric key cryptography and analyze asymmetric key encryption algorithms and digital signatures.
- CO2 :** Analyze the concept of message integrity and the algorithms for checking the integrity of data.
- CO3 :** Explain various protocols for network security to protect against the threats in the networks.

Sr. No.	Que. No.	Questions	Mapping with CO	BT Level
1	1.	Explain in detail about Euler's Totient function?	CO3	II
2	2. a)	In public key system using RSA you intercept the cipher text $C = 10$ sent to the user whose public key is $e = 5$, $n = 35$, what is the plaintext M ?	CO3	III
	2. b)	Demonstrate the working of Diffie-Hellman key exchange algorithm with suitable example.	CO3	III
3	3.	Explain in detail about MD5 Message Digest Algorithm.	CO4	II
4	4.	Explain the Hash Functions and their Security.	CO4	II
5	5.	Explain in detail about Application Gateway firewall.	CO5	II
6	6.	Explain in detail about SQL injection?	CO5	II

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