Department of Computer Science
Gujarat University

Certificate

Roll No: __37__   Seat No: _____

This is to certify that Mr./Ms. __Jeel Digeshkumar Mavani__ student of MCA Semester – V has duly completed his/her term work for the semester ending in December 2020, in the subject of __Network Security__ towards partial fulfillment of his/her Degree of Masters in Computer Applications.

11th, December 2020
Date of Submission   Internal Faculty

Head of Department

Department Of Computer Science
Rollwala Computer Centre
Gujarat University

MCA – V

Subject: - **Network Security**

Name: - **Jeel Mavani**

Roll No.: - **37**   **Exam Seat No.: -**

Sr. No.	Contents	Pg. No	Date	Signature
1	Assignment-1	3	12th Aug	
2	Assignment-2	4	15th Sept	
3	Assignment-3	7	10th Nov	
4	Assignment-4	9	24th Nov	

ASSIGNMENT :- 1

1 List all symetric key

→ Advanced Encryption standard.
→ Data encryption model.
→ International data encryption algorithem
→ Blowfish.
→ Rivest Ciphes 4   (RC4)
→ Rivest Ciphes 5   (RC5)
→ Rivest Cipher 6   (RC7).

2 List all a symetric key algorithem

→ RSA.
→ Diffic - Hellman.
→ ETGermal-
→ Ecc

3 List all algorithms for message digest.

→ ND5
→ SHA-1.

Assignment : 2

a. PII :-

Personal identitiable information is
any data that could potentially identify
a specific individual.

b. US privacy act of 1974 :-

Establishes a code of fair information
maintenance use and dissemination
of information about individual that
is maintained in system of by
federal agencies.

c. FOIA :-

It required the full of partial disclosure
of previously uneelesed information
and documents controlled by untied
states goverment upon request

d. FERA :-

It governs the access to educational
information and records by public
entities such as potential empoloyers
pubic funded educational institutes
and foreign govermenrs.

e. CFAA :-

The law prohibits accessing a computer, without authorization or in excess of authorization.

f. COPPA :-

The children online privacy protection act.

g. VPPA :-

It regulates the disclouse of information about customers consumption of video content imposing prescuptive requirement to obtain consumers consent to such disclosure.

h. HIPAA :-

Ensures that individual health case plans are accessible portable and. renewable.

i CRIBA :-

It requires financial insitutions.
companies that offer consumers.
financial products or services
like loans financial or investment
advice or insurance - to explain their
information sharing Pratices to their
customer.

i FCRA :-

The FCRA regulates foreign donations
and ensures that such contributions
do not adversely affect internal
security.

j FACTA :-

FACTA is principally known for its
previsions against identify theft.

ASSIGNMENT :- 3

① STATE THE FULL FORM :-

1. REDIUS :-

   REMOTE AUTHENTICATION DIAL - IN USER SERVICE.

2. TACACS :-

   Terminal Access controller Access control.

3. L2TP :-

   Layer 2 Tunneling protocol.

4. PPTP :-

   Point - to point tunneling portocol.

5. EAP :- Extensible Authentication portocol.

6. CHAP :-

   Challange - Handshake Authentication portocol.

7. NTLM :-

   Windows challange / Responce.

8. PAP :-

Password Authentication Protocol.

9. SSH :-

Secure shell.

10. LDAP :-

Lightweight Directory Access protocol.

ASSIGNMENT :- 4.

1. List names of software :-

1. Firewall :-

Fortigate
Sophos xg firewall.
Watchguard network security.
Sonicwall.
Cisco.
Glasswine firewall.

2. Intrusion Detection & prevention :-

OSSEC
Snort
Saraates.
Security onion.

3. Anti virus :-

Bitdefender
Norton Antivirus
Avira Antivirus
Trend micro.
Kaspessky Antivirus.

4. Packet sniffing :-

Wireshrake.
Steel control packet Analyzes.
NetworkMiner.
Kismet.

2. State any 10 security software used,
by ethical hacker.

Metasploit framwork.
Nmap.
Open SSH.
Wireshark.
News.
Aircracking.
Short.
John the ripper.
Lophiecrack.

3. What is the role of CERT.

CERT primary role is to noise security
awarness among indian cyber community
and to provide technical assitance
and advise them to help them
recover from computer security includents

4. List OWASP top ten.

Injection
Broken Authentication.
Sesitive Data exponce.
XNL External Entities.
Broken Access control.
security misconfigurations.
Cross site scraepting.
Insecure deseilization.
Insufficient logging and monitoring.