## GUJARAT TECHNOLOGICAL UNIVERSITY MCA- SEMESTER -IV EXAMINATION -SUMMER-2019

Subject Code:3640004	Date: 21-05-2019

**Subject Name: Network Security** 

Time:10.30 am to 1.00 pm	Total Marks: 70
--------------------------	-----------------

**Instructions:** 

**Q.4** 

**Q.5** 

**Q.5** 

**(b)** 

**(b)** 

(a)

**(b)** 

cipher.

Security network?

Discuss the SSL Architecture

Discuss the Comparusib if Threats on the web

1.	Attempt	t all	questions

2. Make suitable assumptions wherever necessary.

	3.	Figures to the right indicate full marks.	
Q.1	(a)	Answer the following (Any Seven) Give Abbriviation for following Terms	07
		1. SSH	
		2. PKI	
		3. DMZ	
		4. OSI	
		5. AES	
		6. PRF	
		<ul><li>7. Define : Threat</li><li>8. Define : Attack</li></ul>	
		<ul><li>9. A masquerade takes place when one entity pretends to be a different entity True/False</li></ul>	
	<b>(b)</b>	Define Following Terms with one/two line(s) definition	07
		1. Block cipher	
		2. Security Service	
		3. Public Key	
		4. Steam cipher	
		<ul><li>5. Encryption</li><li>6. Security Mechanism</li></ul>	
		7. Hyper Text Browser	
		1.	
<b>Q.2</b>	<b>(a)</b>	Write symmetric encryption scheme five ingredients and draw figure.	07
	<b>(b)</b>	Discuss categories of passive and active security attacks.	07
<b>.</b>	<b>(1.)</b>	OR	
Q.2	<b>(b)</b>	What is OSI Security Architecture? Discuss OSI-SA with reference of security attack, mechanism and services.	07
Q.3	(a)	List type of Attack on Encrypted Messages	07
	<b>(b)</b>	What are three different independent dimensions of Cryptography	07
		OR	
<b>Q.3</b>	<b>(b)</b>	Short note on Feistel Cipher Structure	<b>07</b>
Q.4	(a)	Discuss HASH Functions requirements	07
Æ	(b)	Short note on Public Key Encryption Structure	07
	` /	OR	

\*\*\*\*\*

OR

Describe three alternative approaches to providing WAP end-to-end security.

Why do some block cipher modes of operation only use encryption while others use

both encryption and decryption? Differentiate between a block cipher and a stream

What is FIREWALL? Describe the various types of Firewall and why is neede in

**07** 

07

**07** 

**07** 

07