Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER–V • Examination – WINTER • 2014

Subject Code: 3350704 **Date: 04-12-2014**

Subject Name: Computer Network and Security

Time: 10:30 am - 01:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **English version is considered to be Authentic.**

Q.1 Answer any seven out of ten. **14**

1. Define: Intruders and Insiders.
2. Define: Internet and Intranet.
3. Define: Encryption and Decryption.
4. Write an advantages of NIDS.
5. Write a simple example for conversation of plain text in to cipher text using Caesar cipher.
6. List the features of Secure electronic transaction.
7. Write in short : Sniffing.
8. What do you mean by web traffic?
9. What is a Backdoors.?
10. Write a component of a good password.

Q.2 (a) Difference between DOS and DDOS. **03**

OR

(a) Write a Short note on steganography. **03**

(b) To convert given plain text in to cipher text using vigenere cipher. **03**
Plain text is “GUJARAT UNIVERSITY”
Key is “ TECHNOLOGICAL”.

OR

(b) Explain private key protection. **03**

(c) Explain MIM **04**

OR

(c) Explain Transposition technique **04**

(d) Explain SHA-1 function in short. **04**

OR

(d) Write a limitation of firewall **04**

Q.3 (a) How to use digital certificate? **03**

OR

(a) Write an advantages of HIDS. **03**

(b) Explain in short : spoofing **03**

OR

(b) Explain Bridge trust model. **03**

(c) What is centralized infrastructure ? Write a limitation of it. **04**

OR

(c) List the types of firewall. Explain any one from it. **04**

	(d)	Explain SSL/TLS.	**04**
		OR	
	(d)	Explain architecture of IP security.	**04**
Q.4	(a)	Explain authentication in terms of Security.	**03**
		OR	
	(a)	Explain Data integrity in terms of Security.	**03**
	(b)	Difference between Symmetric encryption and Asymmetric encryption.	**04**
		OR	
	(b)	Explain Security of Email transmission.	**04**
	(c)	Explain Play fare cipher with example.	**07**
Q.5	(a)	Explain Kerberos authentication.	**07**
	(b)	What is Biometrics ? write a short note on finger prints.	**04**
	(c)	Explain" computer generated passwords" selection strategy.	**03**

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