

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
