



**DHARMSINH DESAI UNIVERSITY, NADIAD**  
**FACULTY OF TECHNOLOGY**  
**B.TECH. SEMESTER VII [Information Technology]**  
**SUBJECT: (IT 710) E-Commerce & E-Security**

**Examination** : First Sessional      **Seat No.** : \_\_\_\_\_  
**Date** : 28/07/2014      **Day** : Monday  
**Time** : 1:00 TO 2:15      **Max. Marks** : 36

**INSTRUCTIONS:**

1. Figures to the right indicate maximum marks for that question.
2. The symbols used carry their usual meanings.
3. Assume suitable data, if required & mention them clearly.
4. Draw neat sketches wherever necessary.

**Q.1 Do as directed.** [12]

- (a) Define Attack and Threat [2]
- (b) What do you mean by Non-Repudiation and Masquerade [2]
- (c) List and Explain the Types of Attack on Encrypted Message in Brief [2]
- (d) Differentiate between End-to-End and Link to Link Encryption [2]
- (e) Encrypt following text using transpositional cipher where key is : 1432 [2]  
Plain Text: I love my India
- (f) Give disadvantages of using One Time pad [2]

**Q.2 Attempt any two from the following questions.** [12]

- (a) Encrypt using Hill Cipher [6]  
$$\text{Key: } \begin{bmatrix} 2 & 4 & 5 \\ 9 & 2 & 1 \\ 3 & 17 & 7 \end{bmatrix}$$
  
Plain Text : tryout
- (b) Encrypt Using Play Fair Cipher [6]  
Plain Text : Hello students  
Key : monarchy
- (c) Explain X9.17 Pseudo Random Number Generator with proper figure. [6]

**Q.3 Attempt the following questions.** [12]

- (a) Explain Key Distribution Scenario With proper figure and step by step explanations [6]
- (b) Explain Cipher Feedback Mode with proper figure. [6]

**OR**

**Q.3 Attempt the following questions.** [12]

- (a) Draw packets which show the Relationship between encryption on every Layer and Protocol. [6]
- (b) Explain S-DES key Generation With proper figure and Step by Step Explanations. [6]