

POST GRADUATE DIPLOMA IN  
INFORMATION SECURITY (PGDIS)

Term-End Practical Examination

December, 2013

MSEI-022 (P) : NETWORK SECURITY

Time : 3 hours

Maximum Marks : 100

- Note : (i) Attempt *any two* out of three questions.  
Each carry **40** marks.  
(ii) *Viva Voce* carries **20** marks.

1. Write a program to accept a string from the user and apply the algorithm as given below : **40**

Encryption :-

For even position characters

$ch = ch + 5$

For odd position characters

$ch = ch + 7$

Decryption :-

Reverse of encryption function use any programming language

( Preferably C/Java).

- 2 Take a random IP address that is valid. Perform port scanning. List the open ports. Try to open new service / server/ application to open the new port and again do the port scanning where the port must be opened. **40**

3. Randomly select Ten systems from the Network. 40  
Divide them in two Groups G1 and G2 with five systems in each group.  
Perform necessary security audit of systems in both G1 and G2. Prepare a report of security threats and vulnerability assessment.  
Provide a conclusion based on above report as to which group is more secure and why ?
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