

Sinai University

Faculty of Information Technology

Information and Network Security Quiz #3 Time: 40m

Name: ID:

Answer the following Questions[15 marks]

Question 1:

Generate the new key matrix from the following matrix

3A	15	36	2C
4B	17	26	54
29	1B	22	34
1F	CE	15	4D

Question 2:

Apply the RSA algorithm to encrypt M=50 using p=5 and q=11.

Question 3:

Evaluate $50^{21} \mod 113$ using the binary method.