CRYPTOGRAPHY AND NETWORK SECURITY

MINIOR CLASS TEST-1

AIMAN SIDDIQUA. - 2K18/MC/008

RSA cryptosystem

$$p = 95, q = 11.$$
 $n = p \times q = 55$

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To calculate 21000 in group Z13, +13

By fermat's little theorem
$$2^{12} = 1 \mod 13$$
 $2^{1000} = 2^{400} = 2^{40} = 2^{40} = 3 \mod 13$.

ELLIPTIC CORVE.

$$y^{2} = x^{3} + x + 6$$

 $d = 7$ $e_{1} = (2, 7)$
 $f = (10, 9)$
 $y = 3$