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in a public-lay system using RSA, you intercept the Ciphertext C=10 km to a user whose public key is e=5, n=35. what is the plaintext?

Pembahasan:

Dik: C=10

e: 5

11:35

Dit: M

Jub: M = C d mod n

Select primes: p=5 & q=7

Thing N = P. q

- 5.7 = 35

1 Hitung (n): (p-1) (q-1)

= (5-1) (7-1)

= 4. c

: 24

⊙ scient e : god (e124) = 1 , chouse = 5

Tentukan d; d.e = 1 mod 24 dun d<24
</p>

maka $d=5 \rightarrow karena$ $5x5:25 \rightarrow 4.641$

O public key Ku = {ein}

: {5,35}

@ provote ky kr = { dipiqz

= {5,5,7}

(*) M: Cd mod N

= 10⁵ mod 39

= 100.000 mod 35

Maka plaintext (M) = 5 Pembukti bahwa Cipherfexi C=10

C = Me mod N

= 55 mod 35

= 3125 mod 35

= 10 (terbukti ciphertext = 10) //