Bhagyashri Nilesh Bhamare. 181IT111 1) p=3 q= 11 m=3x11=33 [E=7] Suppose 'a'= 3 a^7 = (3) = 2187 2187 = 33×66+9 After diving by n reminder is 9 The encrypted message to be sent is 9 Suppose D=3 913 = 729 After diving n=33 reminder is 3 3 is the original number.

2 1 = 2 , Suppose P=3, 9=11 n=3x11=33 E=7

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2 7 = 128

128 = 3×33 +29

10 After Oliving with 33 teminder is 29

The encrypted message is 29

let's D=3

 $29^3 = 29 \times 29 \times 29 = 24389$

20 24389 = 739×33+2

After divding with 33 reminder is

2 is the original message.

30

(3) \c"=4 | Suppose P=3 and 9=11 n=8x11=93

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 $(4)^{\frac{7}{2}}$ 16384

16384 = 496x33+16

After divoling by 38 reminder is 16

The encrypted message is 16.

Suppose D= 3

(16)3 = 4096

4096 = 38x124+4

After diving by 33 reminder is 4

4 is the original message.