			FAGE No.
			DATE
	Enample	: N = 221	
		e = 5	
		Coloui	
	18×301	calculate d=?	FY-DAT-GAZ-IA
	xIIch	also encrypt p=	7.
1	Solution	: 221 = 13 × 17 ·	(1) 1 (1) 1 (1)
	301411011		63 0113
		P = 13	Kay
		9=17	(FF) 0 to 1
			9 ) Law 12 1
		\$ (221) = \$ (13 × 17)	08 box 1-(00) } 0
3		= 12 × 16 = 192	
			112 13
		d=e-1 mod p(n)	$= (2^{6} - 2^{5}) \times 2$ $= (64)$
		= 5 1 mod 192	= (64)
		= 5 \$ (192) -1 med	19.24
		$d = e^{-1} \mod \phi(n)$ $= 5^{-1} \mod 192$ $= 5^{63} \mod 192$ $= 5^{32} \mod 192$	THE AND A LA
4		= 532 x 5 16 x 68 x 6	54 x 52 x 51 mod 192.
		= 1 × 1 × 9 7 × 111	9 × 25 × 5' mod 192.
		= (77)	1 × 25 × 5 mod 19 2
	6.2	coal object	or 60 m 20
		eng ption.	EFE have be a
		2 26	- CE ban 2 12 82 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
		C=Pemodn	66 hay 7 x 8 x 8
		= 75 mod 221	6.
7		= 7 42 x 7 x 7 mo	od 221.
		= (11)	
-			1 1 2500 1253 1
-			SE 1 11
/			(3)

```
e = 3
        find n p(n) and d?
Solution: n= pxq
           = 19 × 23 = 437.
      \phi(437) = \phi(19 \times 23)
            = 18 \times 22 = 396.
                                                  120.
        81 ×9 × 333 × 81 × 9 × 3 mod 396
```