GSwamy Ayyappa AMEN. U4CSE17025 CSE-A 2A 75: a = 811213149 Vidence 194 a=1- \$11312149 Z11 a= {11218141516418191103 a-1= \$1,6,40,9,2,8,7,5,103. SA) Euclidean algorithm to find gcd gcd (56245 143159)=. 56245=1893159+13086 43159 73x 13086 +390) 13086 - 8×3901 + 1383 3901 5 1×1383+1135 1383 = 1× 1135 +248 1135 = 4×248 + 143 248=1×14-3+105 143= 1×105+38 2 hamps 105 = 2×38 +29 38=1x29+9 29: 3×9+2 9=UX2+1 2-2×1+0: gcd=1 Q(39) = pl-pl-1 => p (34) = 34-34-1 = 34-33 = 2712 = 54

$$(3)^{10} = 2^{10} - 2^{9}$$
 $= 10 24 - 512 = 512$ 
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3 100 (mod 3 1319) - (12185 x21979 x81) mad 31319 = 25879 (mod 31319) [A. Given at 7/p

(atel newds) - an (modp)

(new app, nence, a gnt near po fmodp

--- + nenan po fmodp

Jotot. an ) modp

= almodp