SC1, FF 4-6 S(1) CT: 0101 0101 1110 1001 2 generates Fez 5 generates F167 Scret Key = 7 5 mod 167 = 136 mod 2 = 0 1362 mod 167 = 126 mod 2 = 0 1262 mod 167 = 11 mod 2 = 1 112 mod 167 = 121 mod 2 = 1 1212 mod 167 = 112 mod 2=0 112 nd 167 = 19 nod 2 = 1 112 mol 167 = 27 mol 2 = 1 272 mod 167 = 61 mod 2=1 612 mod 167= 47 mod 2 =1 47 mod 167= 38 mod Z= 0 382 mod 167= 108 mod Z=0 1082 mod 167 = 141 mod 2= 1 1412 mod 167 = 8 mod 2 = 0 82 mod 167=64 mod 2=0 642 md 167 = 88 mod 2=0 882 mad 167 = 62 mad 2=0

ASCII: by

FF-4)	
Polynomials of Degree 3	Irreducible form
\times^3 + $0x^2$ + $0x$ + 0	$\chi^{2}(x)$
$\chi^3 + 0\chi^2 + 0\chi + 1$	(x2+x+1)(x+1)
13+0x2+x+0	x(x2+1)
X3 40x2+ X 41	Irreduible
x3+ x2+0x +0	x ² (x+1)
x3+x2+ Ox+)	Imduible
$\chi^3 + \chi^2 + \chi$	X(x2+x41)
$\chi^3 + \chi^2 + \chi + \lambda$	$(x^2+1)(x+1)$

FF-5)	x3=x+1	
Power of 2	mod (x3+x+1)	Reduced
(X ²)'	L	X
$(\chi^2)^2$	x4	x2+ X
(r2)	Х 6	X2+1
$(\chi^2)^4$	×8	X
(X2)5	X	X41
(x2)6	XIZ	K2+X+1
$(x^2)^2$	X'4)
Yes		

[FF-6] 9)
$$x^{3}$$
 x | x^{3} x^{2} | x^{3} x^{2} | x^{3} x^{4} | x^{5} x^{4} x^{3} x^{2} | x^{6} x^{4} x^{5} x^{4} x^{5} x^{6} x^{7} x^{7}

(d	x4= x+1
X	X
X	ΧŽ
×3	X³
x ⁴	X+ \
	x2+ X
×e	X3+ X2
XF	(x+1) + x3
Xq	x2+1
X	x3+ x
χ	x2+ x+ \