1)
$$P = 7$$
, $q = 17$, $e = 9$ |

9) $n = P \cdot q = 7 \cdot 17 = 119$ $O(n) = (6 \times 16) = 96$
 $d = e^{-1} \text{mod}(0(n)) = 91^{-1} \text{mod}(96)$
 $16 = 91 \cdot 1 + 5$
 $1 = 91 - 18(96 - 91)$
 $1 = 19 \cdot 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 $1 = 19 = 19$
 1

$$V = 21$$
 $3(21) + 17 \pmod{26} = 2$ (
 $8 = 1$ $3(1) + 17 \pmod{26} = 20$ U
 $S = 18$ $3(1) + 17 \pmod{26} = 19$ T
 $X = 23$ $3(23) + 17 \pmod{26} = 8$ I
 $N = 13$ $3(13) + 17 \pmod{26} = 4$ E

5)
$$p=3=9=2$$
 $q_B=22$ $j^k \mod p=17$ $M g^{q_B k} \mod p=34$

