

$$P = (C - K) \bmod 26$$

Q1) Using formula  $\Rightarrow P = (C - 7) \bmod 26$

Cipher text: Key = "H" or "7"

= K V U A Q B K N L H I V V R I F P A Z J V C L Y  
 ↓  
 10 21 20 0 16 1 10 13 11 7 8 21 21 17 8 5 15 0 25 9 21 2 11 24

Key is 7

Plaintext:

= 3 14 13 19 9 20 3 6 4 0 1 14 14 10 1 24 8 19 18 24 21 4 17  
 ↓  
 D O N T J U D G E A B O O K B Y I T S C O V E R

Q2) Using formula  $\Rightarrow P = (C - K) \bmod 26$   
 Key = "D" or 3

Cipher text:

= D O O V Z H O O W K D W H Q G V Z H O O  
 ↓  
 3 14 14 21 25 7 14 14 22 10 3 22 7 16 6 21 25 7 14 14

Key is 3

Plaintext:

= 0 11 11 18 22 4 11 11 19 7 0 19 4 13 3 18 22 4 11 11  
 ↓  
 A L L S W E L L T H A T E N D S W E L L