

Section 3)

1) find the sequence of characters by following the Binary numbers

1 2 3 4 5
 01000011 01011111 00111001 01100010 00111101

Convert Binary to decimal

using ASCII table to convert decimal to char

1) $01000011 = \boxed{67}$ ✓

$2^6 + 2^1 + 2^0$
 $64 + 2 + 1$

2) $01011111 = \boxed{95}$ ✓

$2^6 + 2^4 + 2^3 + 2^2 + 2^1 + 2^0 = 95$
 $64 + 16 + 8 + 4 + 2 + 1$

3) $00111001 = \boxed{57}$ ✓

$2^5 + 2^4 + 2^3 + 2^0$

$32 + 16 + 8 + 1 = 57$

4) $01100010 = \boxed{98}$ ✓

$2^6 + 2^5 + 2^1$

$64 + 32 + 2 = 98$

5) $00111101 = \boxed{61}$ ✓

$2^5 + 2^4 + 2^3 + 2^2 + 2^0$

$32 + 16 + 8 + 4 + 1 = 61$

$67 = 'C'$

$95 = '_'$

$57 = '9'$

$98 = 'B'$

$61 = '='$

therefore the Binary sequence converts to the characters

↓

C_9B=

from left to right