$Homework \ 1-Number \ of \ System \ and \ Codes$

Instructions: - You have to show all work in order to receive full credit - Grading: 5 pts each Make the following conversion (question 1-11):			
		1) Given 1011101 ₂ , what would be its decimal value	2) Given A3E ₁₆ , what would be its decimal value
		3) Given 28418 ₁₀ , what would be its hexadecimal value	4) Given 56 ₁₀ , what would be its binary value
5) Given 461 ₈ , what would be its decimal value	6) Given 70 ₁₀ , what would be its octal value		

7) Given 8A5 ₁₆ , what would be its binary value 8) Given 135 ₈ , what would be its binary value 9) Given 1010011011 ₂ , what would be its hexadecimal value 10) Given 10000101 ₂ , what would be its octal value	
hexadecimal value	
11) Given the following display number 895 ₁₀ , what would be its BCD value?	
12) What is the message of the following hexadecimal code? 48 65 79 50 41 55 4C	
Hint: use the ASCII code chart to decode the message.	
ASCII Code Chart	
0 NUL SOH STX ETX EOT ENQ ACK BEL BS HT LF VT FF CR SO SI	
1 DLE DC1 DC2 DC3 DC4 NAK SYN ETB CAN EM SUB ESC FS GS RS US 2 ! " # \$ % & ' () * + ', ' - ' /	
1 DLE DC1 DC2 DC3 DC4 NAK SYN ETB CAN EM SUB ESC FS GS RS US 2 ! " # \$ % & ' () * + ' - ' / 3 0 1 2 3 4 5 6 7 8 9 : ; < = > ?	
1 DLE DC1 DC2 DC3 DC4 NAK SYN ETB CAN EM SUB ESC FS GS RS US 2 ! " # \$ % & ' () * + ' ' - ' /	

Perform the following arithmetic operation (question 13 to 16)	
13) 1101 – 110	14) 1110 – 1001
15) 110 + 11	16) 1011 + 101
Write in binary code, each of the following negative numbers (question 17-20)	
17) -32 ₁₀	18) -5610
19) -126 ₁₀	20) -18 ₁₀