DELTA Pg No.
Date / /

Assignment -1.

Date:- 2021-01-19 Name:- Gautam Shah

Lecture = 1. Roll no:- 2029165

Q.1. Soln;

162

binary = 10100010

octa = 242

hexa = 10x = A2

Decimal	binary	octa	hex
162	$(10100010)_2$	$(242)_8$	$(A2)_{16}$
193	$(11000001)_2$	$(301)_8$	$(C1)_{16}$
128	$(10000000)_2$	$(200)_8$	$(80)_{16}$
32	$(00000)_2$	$(40)_8$	$(20)_{16}$
47	$(101111)_2$	$(57)_8$	$(2F)_{16}$
93	$(1011101)_2$	$(135)_8$	$(5D)_{16}$

Q.2. Soln;

Binary	Decimal	Octa	Hex
$(01011)_2$	11	$(13)_8$	$(B)_{16}$
$(11000001)_2$	193	$(301)_8$	$(C1)_{16}$
$(1011101)_2$	93	$(135)_8$	$(5D)_{16}$
$(10001111)_2$	143	$(217)_8$	$(8F)_{16}$

Q.3. Soln;

hex	binary	octa	decimal
$(A023)_{16}$	$(1010000000100011)_2$	$(120043)_8$	40995
$(A105)_{16}$	$(1010000100000101)_2$	$(120405)_8$	41221
$(016BC)_{16}$	$(10110101111100)_2$	$(13274)_8$	5820
$(223AE)_{16}$	$(10010001110101110)_2$	$(221656)_8$	74670

Q.4. Soln;

Octa	binary	hex	decimal
$(1271)_8$	$(1010111001)_2$	$(2B9)_{16}$	697
$(1392)_8$	not defined	—	—
$(126)_8$	$(1010110)_2$	$(56)_{16}$	86
$(674)_8$	$(1110111100)_2$	$(3BC)_{16}$	956

Q. 5. Soln;

(8bit signed) binary	~~integer~~ Decimal
$(1011\,0111)_2$	-73
$(0111\,011)_2$	59
$(1101\,1010)_2$	-38
$(10111111)_2$	-65

Q. 6. Soln;

~~Decimal 4 bit 2 bit~~

- -10

  4 bits = 0110

  2 bits = 10

- 190

  7 bits - 0111110

- -193

  7 bits - 0111111

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- -45

  6 bits - 010011

- -32

  6 bits - 100000

- 128

  8 bits - 10000000

- -1

  7 bits - 1000001

Sign.