## Quizzes: Chapter 04

1.	is an arithmetic operation.
	a. The exclusive OR
	<b>b.</b> The unary NOT
	c. Subtraction
	d. The binary AND
	Correct Answer: (c)
2.	is a logical bit operator.
	a. The exclusive OR
	<b>b.</b> The unary NOT
	c. The binary AND
	d. exclusive OR, unary NOT, or binary AND
	Correct Answer: (d)
3.	The method of integer representation is the most common method for storing integers in computer memory.
	a. sign-and-magnitude
	b. one's complement
	c. two's complement
	d. unsigned integers
	Correct Answer: (c)
4.	In two's complement addition, if there is a final carry after the left most column addition,
	a. add it to the right most column
	b. add it to the left most column
	c. discard it
	d. increase the bit length

## Correct Answer: (c)

5.	For an 8-bit allocation, the smallest decimal number that can be represented in two's complement form is  a8  b127  c128  d256  Correct Answer: (c)
6.	For an 8-bit allocation, the largest decimal number that can be represented in two's complement form is  a. 8 b. 127 c. 128 d. 256 Correct Answer: (b)
7.	In two's complement representation with a 4-bit allocation, we get when we add 1 to 7.  a. 8  b. 1  c7  d8  Correct Answer: (d)
8.	In two's complement representation with a 4-bit allocation, we get when we add 5 to 5.  a5  b6  c7  d. 10  Correct Answer: (b)
9.	If the exponent in Excess_127 is binary 10000101, the exponent in decimal is

	<b>a.</b> 6
	<b>b.</b> 7
	<b>c.</b> 8
	<b>d.</b> 9
	Correct Answer: (a)
10.	If we are adding two numbers, one of which has an exponent value of 7 and the other an exponent value of 9, we need to shift the decimal point of the smaller number
	a. one place to the left
	<b>b.</b> one place to the right
	c. two places to the left
	d. two places to the right
	Correct Answer: (c)
11.	operator (s) takes two inputs to produce one output.  a. Only AND
	b. Only OR
	c. Only XOR
	d. AND, OR, or XOR
	Correct Answer: (d)
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12.	The unary operator inverts its single input.
	a. AND
	b. OR
	c. NOT
	d. XOR
	Correct Answer: (c)
13.	operator (s), if the input is two 0s, the output is 0.
	a. In only AND
	b. In only OR
	c. In only XOR
	d. In AND, OR, or XOR
	Correct Answer: (d)

14	operator (s), if the input is two 1s, the output is 0.
a.	In only AND
b.	In only OR
c.	In only XOR
d.	In AND, OR, or XOR
Co	orrect Answer: (c)
<b>15.</b> Fo	or the binary AND operation, only an input of gives an
	tput of 1.
a.	two 0s
b.	two 1s
c.	one 0 and one 1
d.	two 2s
Co	orrect Answer: (b)
	or the binary OR operation, only an input of gives an out- t of 0.
-	two 0s
	two 1s
c.	one 0 and one 1
d.	two 2s
Co	orrect Answer: (a)
17. W	e use a bit pattern called a to modify another bit pattern.
a.	mask
<b>b.</b>	carry
c.	float
d.	byte
Co	orrect Answer: (a)
<b>18.</b> To	of flip all the bits of a bit pattern, make a mask of all 1s and then the bit pattern and the mask.
a.	AND
b.	OR
c.	XOR
d.	NOT

## **Correct Answer: (c)**

19. To un-set (force to 0) all the bits of a bit pattern, make a mask of	of all
Os and then the bit pattern and the mask.	
a. AND	
b. OR	
c. XOR	
d. NOT	
Correct Answer: (a)	
20. To set (force to 1) all the bits of a bit pattern, make a mask of a	ıll 1s
and then the bit pattern and the mask.	
a. AND	
b. OR	
c. XOR	
d. NOT	
Correct Answer: (h)	