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1. What is the output of the following expression: print(4.00/(2.0+2.0))
a) Error
b) 1.0*
c) 1.00
d) 1

2. Consider the expression given below. The value of X is: X = 2+9*((3*12)-8)/10
a) 30.0
b) 30.8
c) 28.4
d) 27.2 *

3. What is the value of the following expression: 24//6%3, 24//4//2
a) (1,3)*
b) (0,3)
c) (1,0)
d) (3,1)

4. Which among the following list of operators has the highest precedence?
 +, -, **, %, /, <<, >>, |
a) <<, >>
b) **   *
c) |
d) %

5. What is the value of the expression:
float(4+int(2.39)%2)
a) 5.0
b) 5
c) 4.0 *
d) 4

6. Which of the following expressions is an example of type conversion?
a) 4.0 + float(3) *
b) 5.3 + 6.3
c) 5.0 + 3
d) 3 + 7

7. Which of the following expressions results in an error?
a) float('10')
b) int('10')
c) float('10.8')
d) int('10.8')*

8. What is the value of the expression:
4+25//10**
a) 3
b) 7 *
c) 77
d) 0

9. The expression 22**3 is evaluates as: (2**2)**3. State whether this statement is true or false.**
a) True
b) False *

10. What is the result of the snippet of code shown below if x=1? x<<2
a) 8
b) 1
c) 2
d) 4 *

11. The output of the expression is: bin(29)
a) '0b10111'
b) '0b11101' *
c) '0b11111'
d) '0b11011'

12. What is the value of x if:
x>>2=2
a) 8 *
b) 4
c) 2
d) 1

13. What is the result of the expression:
int(1011)?
a) 1011 *
b) 11
c) 13
c) 1101

14. To find the decimal value of 1111, that is 15, we can use the function:
a) int(1111,10)
b) int('1111',10)
c) int(1111,2)
d) int('1111',2) *

15. What is the result of the expression if x=15 and y=12: x & y
a) b1101

b) 0b1101
c) 12 *
d) 1101

16. Which of the following expressions results in an error?
a) int(1011)
b) int('1011',23)
c) int(1011,2)*
d) int('1011')

17. Which of the following represents the bitwise XOR operator?
a) &
b) ^ *
c) |
d) !

18. What is the value of this expression?
bin(0x8)
a) '0bx1000'
b) 8
c) 1000
d) '0b1000' *

19. What is the result of the expression:
0x35 | 0x75
a) 115
b) 116
c) 117 *
d) 118

20. The one's complement of 110010101 is:
a) 001101010 *
b) 110010101
c) 001101011
d) 110010100

21. Bitwise _____ gives 1 if either of the bits is 1 and 0 when both of the bits are 1.
a) OR
b) AND
c) XOR *
d) NOT

22. The result of the expression shown below is: 4^12
a) 2
b) 4

c) 8 *
d) 12

23. What is the value of this expression:
bin(10-2)+bin(12^4)
a) 0b10000
b) 0b10001000
c) 0b1000b1000
d) 0b10000b1000 *

24. Which of the following expressions can be used to multiply a given number 'a' by 4?
a) a<<2 *
b) a<<4
c) a>>2
d) a>>4

25. What is the output of the code show below if a=10 and b =20?
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a=10
b=20
a=a^b
b=a^b
a=a^b
print(a,b)
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a) 10 20
b) 10 10
c) 20 10 *
d) 20 20