(1) What gets printed by the following code?

X = True
Y = False
Z = False
If x or y and z:
    print (‘yes’)
Else:
    print (‘No’)

A - yes.
B - No.
C - Error message.

(2) What gets printed?

x = True
y = False
z = False

if not x or y:
    print(1)
elif not x or not y and z:
    print(2)
elif not x or y or not y and x:
    print(3)
else:
    print(4)

A - 1
B - 2
C - 3
D - 4

(3) Which of the following functions converts string to integer?

A - floor(x)
B - eval(x)
C - A and B
D - Nothing
(4) The output of $2^2*2/1+3$ in python is __________.
A- 2.0                        B- 32.0
C- 11.0                       D- 4.0

(5) What gets printed?

```python
print("hello" 'world')
```

A- on one line the text: hello world
B- on one line the text: helloworld
C- hello on one line and world on the next line
D- syntax error, this python program will not run

(6) Which numbers are printed?

```python
for i in range(2):
    print(i)
for i in range(4,6):
    print(i)
```

A- 2, 4, 6
B- 0, 1, 2, 4, 5, 6
C- 0, 1, 4, 5
D- 0, 1, 4, 5, 6, 7, 8, 9
E- 1, 2, 4, 5, 6

(7) What gets printed by the following code?

```python
import math
print(math.floor(5.5))
```

A- 5
B- 5.0
C- 5.5
D- 6
E- 6.0
(8) What gets printed?

```python
x = "fun "
y = 2
print (x + y)
```

A- fun
B- fun fun
C- fun 2
D- 2
E- An exception is thrown

(9) What gets printed?

```python
a = input("#: ")
print (a)
```

A- value of a
B- fun
C- #: fun
D- An exception is thrown

(10) Select the option(s) that prints hello-how-are-you.

A- print('hello', 'how', 'are', 'you')
B- print('hello', 'how', 'are', 'you' + '-' * 4)
C- print('hello-' + 'how-are-you')
D- print('hello' + '-' + 'how' + '-' + 'are' + '-' + 'you')

(11) Is Python case sensitive when dealing with identifiers?

A- yes
B- no
C- sometimes only
D- none of the mentioned.

(12) Which of the following is a valid identifiers (variable name) ?

a) lambda, raise, pass, yield  b) and, or, not, except
   c) if, elif, else  d) add, sub, mul, div
(13) Which is the correct operator for power\( (x^y) \)?
   a) \( X^y \)
   b) \( X**y \)
   c) \( X^^y \)
   d) None of the mentioned

(14) Which one of these is floor division?
   a) /
   b) //
   c) %
   d) None of the mentioned

(15) What is the order of precedence in python?
   i) Parentheses   ii) Exponential   iii) Division   iv) Multiplication   v) Addition   vi) Subtraction
   a) i,ii,iii,iv,v,vi
   b) ii,i,iii,iv,v,vi
   c) ii,i,iv,iii,v,vi
   d) i,ii,iii,iv,vi,v

(16) The output of this program is __________.

```python
i = 1
while True:
    if i%2 == 0:
        break
    print(i)
i += 2
```

A- 1
B- 1 2
C- 1 2 3 4 5 6 7 ..... 
D- 1 3 7 9 11 .....
(17) The following program ________ .

```python
x = eval(input('please enter x'))
y = eval(input('please enter y'))
z = eval(input('please enter z'))
if x>y:
    if x>z:
        print('yes')
    else:
        print('may be')
else:
    print('no')
```

A- prints 'yes', when x=4, y=5, and z=3
B- prints 'no', when x=6, y=5, and z=3
C- prints 'yes', when x=5, y=2, and z=10
D- prints 'may be', when x=5, y=3, and z=6
E- none of the above

(18) The following program ________ .

```python
x = eval(input('please enter x'))
y = eval(input('please enter y'))
if x>y:
    res = x**y
else:
    res = x*y
print(res)
```

A- prints 0.3, when x=10 and y=3.
B- prints 1000, when x=3 and y=10.
C- prints 3000, when x=10 and y=3.
D- prints 30, when x=3 and y=10.
E- none of the above

**Explain the error(s) in the following program:**

```python
n = input('please enter x')
for i in range(n):
    print i
```

**Error:**

- Line 4: `for i in range(n):
    print i` - `i` should be a variable inside the loop, not a string. The correct code should be `for i in range(n):
    print(i)`. Additionally, `print` is a function in Python, so it should be called without parentheses. The correct code is `print(i)`.
Write the following programs:

(1) **print the following operations in python:**
   A- 6+3  
   B- 6-3  
   C- 6\*3  
   D- 6/3  
   E- 6**3  
   F- 6 %3  
   G- 6>3  
   H- 6<3  
   I- 6==3  
   J- 6!=3

(2) **Read x = 6 and y =3 and print the following operations:**
   A- x+y  
   B- x-y  
   C- x*y  
   D- x / y  
   E- x**y  
   F- x%y  
   G- x>y  
   H- x<y  
   I- x==y  
   J- x!=y

(3) **Write a python program that reads number N and prints it.**

(4) **Input dimensions of a rectangle and print its area.**

(5) **Input dimensions of a rectangle and print its perimeter (محيط).**

(6) **Input length of square sides and print its area. Produce an error message if the length is negative.**

(7) **Input three numbers and print either “all three are equal” or “not all are equal” message.**

(8) **Input three numbers and print the biggest one.**

(9) **Write a program that prints numbers from 0 to 9.**

(10) **Write a program that reads N positive integer values and calculates the sum of all odd and even numbers, where N is an input.**