2021-CSE4IP&CSE5CES

Practice Test for the format of Final Test-Solutions

Part-1 (30 MCQ ,T/F questions and output) [30 Mark]

1-

Write what would be printed by the print statement in the following fragment of Python code.

```python
if not True == False:
    print("Ok")
else:
    print("Fine")
```

OK

2- Computer can execute the code in _____.

machine language

assembly language

python language

high-level language

Machine language

3- Python syntax is case-sensitive
   True
   False

True

4- A Python line comment begins with _____.
   //
   /*
   #
   $$

#

5- A Python paragraph comment uses the style _____.
   // comments //

```
/* comments */
/# comments #/
''' comments '''
```

''' comments '''

6- An identifier/ variable can be a keyword?
True
False

False

7- Which of the following is a valid identifier/variable?
$343
mile
9X
8+9

mile

8- Which of the following is a valid identifier? (choose multiple)
While
Kilo1
Mile
(red)

Mile

9- What will be displayed by the following code?
x = 1
x = 2 * x + 1
print(x)
1
2
3
4

3

10-   What will be displayed by the following code?
x, y = 1, 2
x, y = y, x
print(y, x)
1 1
2 2
2 1
1 2

1 2

11- What is the result of 45 / 4?
10
11
11.25
12

11.25

12- Which of the following expression results in a value 1?

2 % 1
15 % 4
25 % 5
37 % 6

37 % 6

13- What is 2 ** 3 evaluates to _____.
8
9
8.0
9.0

8

14- What is x after the following statements?
x = 1 x *= x + 1
1
2
3
4

2

15- Analyze the following code:
even = False
if even:
    print("It is even!")

The code displays It is even!
The code displays nothing.
The code is wrong. replace if even: with if even == True:
The code is wrong. replace if even: with if even = True:

The code displays nothing.

16- The following code displays _____.

```
temperature = 50
if temperature >= 100:
    print("too hot")
elif temperature <= 40:
    print("too cold")
else:
    print("just right")
too hot
too cold
just right
too hot too cold just right
```

just right

17- What is the value of the following expression?

```
print(True or True and False)
```
True
False

True

18-   Which of the following operators is right-associative.

+

*

and

=

=

19- How many times will the following code print "Welcome to Python"?

```
count = 0
while count < 10:
    print("Welcome to Python")
9
10
11
infinite number of times
```
infinite number of times

20-   What will be displayed when the following code is executed?

```
number = 6
while number > 0:
    number -= 3
    print(number)
6 3 0
6 3
```

```
3 0
3 0 -3
```
3 0

21- The function range(5) return a sequence _____.

1, 2, 3, 4, 5

0, 1, 2, 3, 4, 5

1, 2, 3, 4

0, 1, 2, 3, 4

0, 1, 2, 3, 4

22-   Will the following program terminate?

```
balance = 10
while True:
      if balance < 9: break
      balance = balance - 9
```

Yes

No

Yes

23- Will the following program terminate?

```
balance = 10
while True:
      if balance < 9: continue
      balance = balance - 9
```

Yes
No

NO

24- A function _____.

must have at least one parameter

may have no parameters

must always have a return statement to return a value

must always have a return statement to return multiple values

25- Given the following function

```
def nPrint(message, n):
      while n > 0:
            print(message) n -= 1
```
What will be displayed by the call nPrint('a', 4)?

aaaa

aaa

invalid call

infinite loop

infinite loop

26- What will be displayed by the following code?

```
def f1(x=1, y=2):
    x = x + y
    y += 1
    print(x, y)
f1()
```

1 3
3 1
1 1
3 3

3 3

27- Which of the following functions return 4.0
int(3.4)
int(3.9)
eval(3.4)
round(3.5)

round(3.5)

Part-2 (6 Short answer) [30 Mark)

Consider the following function:

```python
def list_mystery(list):
    x = 0
    for i in range(len(list) - 1):
        if list[i] > list[i + 1]:
            x += 1
    return x
```

In the left-hand column below are specific lists of integers. Indicate in the right-hand column what value would be returned by function list_mystery if the integer list in the left-hand column is passed as its parameter.

Original Contents of List	Value Returned
a1 = [8] result1 = list_mystery(a1)	
a2 = [14, 7] result2 = list_mystery(a2)	
a3 = [7, 1, 3, 2, 0, 4] result3 = list_mystery(a3)	
a4 = [10, 8, 9, 5, 6] result4 = list_mystery(a4)	
a5 = [8, 10, 8, 6, 4, 2] result5 = list_mystery(a5)	

Answer:

0

1

3

2

4

Write the output produced by this program below.

```
x = 3
if 2 > x :
        print 'First'
else :
        print  'Second'
        if 2 > x :
                print 'Third'
        print 'Fourth'
print 'Fifth'
```

Answer:

```
Second
Fourth
Fifth
```

Write the output produced by this program below.

```
words = 'this IS NoT EvEN'
print words.title()
print words.replace("IS", 'was')
print words.upper()
print words * 2
```

Answer:

```
This Is Not Even
this was NoT EvEN
THIS IS NOT EVEN
this IS NoT EvENthis IS NoT EvEN
```

Find the error in the following program.

```
line = raw_input("Type a word")
print "You typed", line
line = line + "h"
num = int(line)
print "You typed the number ", num
```

Answer:
The problem lies in lines 3 and 4. Line 3 appends a letter ("h") to the input string. Line 4 then tries to
convert the result to an integer. The result, however, will never be a valid integer
because of the letter "h". So you get an error.