PCEP Practice Test 6

You have 40 minutes to complete the following 30 questions.

1. What are the boolean values in Python (*choose 2*)?

   a. 0
   b. 1
   c. false
   d. true
   e. False
   f. True

2. What is the output of the following code?

   ```
   print(2 * 3, end=' ')
   print(2 * 3., end=' ')
   print(2. * 3, end=' ')
   print(2. * 3., end=' ')
   ```

   a. 6 6 6.0 6.0
   b. 6 6.0 6.0 6.0
   c. 6 6.0 6 6
   d. 6 6 6 6

3. Which of the following statements are true (*choose two*)?

   a. Computer programs are collections of instructions.
   b. Computer programs are collections of classes.
   c. An instruction is a command to perform a specific task when executed.

4. Which of the following statements are true about Python variable names (*choose two*)?

   a. The name of the variable must not be any of Python's reserved words.
   b. The name of the variable can begin with a letter (including _) or number.
   c. The name of the variable must begin with a letter (including _).

5. A low level programming language consisting of binary digits or bits that the computer reads and understands is called:

   a. program language
   b. human language
   c. machine language
   d. OS language

6. What is the output of the following code?

   ```
   res = 1 - 2 / 3 // 4 + 5
   print(res)
   ```

   a. 4.0
   b. 6.0
   c. 5.0
   d. 7.0

7. What is the output of the following code?

```
print("Welcome","to","Python.")
print("Welcome", "to", "Python.")
```

   a. WelcometoPython
       Welcome to Python

   b. Welcome, to, Python
       Welcome, to, Python

   c. Welcome,to,Python
       Welcome, to, Python

   d. Welcome to Python
       Welcome to Python

8. What is the output of the following program?

```
print("ACC Rocks!")
```

   a. The program will output "ACC Rocks!"
   b. The program will generate an error message
   c. The program will output 'ACC Rocks!'
   d. The program will output ('ACC Rocks!')
   e. The program will output ACC Rocks!

9. What is the output of the following code?

```
n = range(1)
for num in n:
    print(num - 1, end=' ')
else:
    print(num)
```

   a. 0
   b. -1 0
   c. SyntaxError
   d. -1

10. What is the output of the following code?

```
for i in range(10):
    if not (i % 2):
        continue
    print(i, end='')
```

   a. 02468
   b. 0
   c. No output
   d. 13579
   e. 1

11. What is true about the else branch in for and while loops?

   a. The else branch is executed by the loop each time the boolean condition is True.
   b. We cannot use an else branch with loops, it must only be used with if statements.
   c. The else branch is always executed once.
   d. The else branch is executed twice.
   e. The else branch is only executed if the main body of the loop does not execute.

12. What is the output of the following code?

```
thing1 = ['A', 'B', 'C']
thing2 = thing1
thing3 = thing2
del thing1[0]
del thing2
print(thing3)
```

    a. ['B', 'C']

    b. NameError: name 'thing3' is not defined.

    c. None

    d. ['A', 'B', 'C']

    e. []

13. Which of the following functions can be applied to strings (*choose three*)?

    a. min()

    b. concat()

    c. insert()

    d. list()

    e. max()

14. What is the output of the following code (*write your answer in the space below*)?

```
print('Plan, practice, review,', '-'.join(3 * ['study']))
```

15. Which of the assignment statements below will convert the following examcode tuple into a dictionary?

```
examcode = (("pcep", "30-02"), ("pcap", "31-03"))
```

    a. examcode = dictionary(examcode)

    b. examcode = dict(examcode)

    c. examcode = to_dict(examcode)

16. What is the output of the following code?

```
s1 = """"""      # Line 1
s2 = """         # Line 2
"""              # Line 3
print(s1, s2)    # Line 4
```

    a. SyntaxError at s2 declaration

    b. SyntaxError at # Line 2

    c. Two empty strings

    d. Three lines containing # Line 2 in the first line

    e. SyntaxError at line 3

    f. Two newline characters

    g. SyntaxError on line 4

17. What is true about the else clause in Python (*choose the best answer*)?

   a. The while and for loops can also have an else clause.
   b. The else clause executes after the loop finishes its execution.
   c. Both a and b above.

18. What is the output of the following code?

```
print(('ACC Rocks!',) * 2)
```

   a. (ACC Rocks!)
   b. TypeError: unsupported operand type(s) for *: 'tuple' and 'int'
   c. ACC Rocks!ACC Rocks!
   d. ('ACC Rocks!', 'ACC Rocks!')
   e. SyntaxError: invalid syntax

19. What is the output of the following code?

```
thing1 = ['A', 'B', 'C']
thing2 = thing1
thing3 = thing2
del thing1[0]
del thing2[:]
print(thing3)
```

   a. ['A', 'B', 'C']
   b. ['B', 'C']
   c. []
   d. None
   e. NameError: name 'thing3' is not defined.

20. Which of the choices below print True given the following code (*choose two*)?

```
s = '''Python is a good language.
PCEP is a good certification.'''
```

   a. print('Certification' not in s)
   b. print('PCEP' not in s)
   c. print('Good' not in s)
   d. print('Python' not in s)

21. What is the output of the following code?

```
thing = {'zero': 0, 'one': 1, 'three': 3, 'two': 2}
for k in sorted(thing.keys()):
    print(thing[k], end='')
```

   a. 1320
   b. TypeError: sorted expected 2 arguments, got 1
   c. zero one two three
   d. one three two zero
   e. 0123

22. What is the output of the following code?

```
thing1 = ['A', 'B', 'C']
thing2 = thing1
thing3 = thing2
del thing1[0]
del thing2[0]
print(thing3)
```

    a. None

    b. ['B', 'C']

    c. ['C']

    d. ['A', 'B', 'C']

    e. NameError: name 'thing3' is not defined.

23. What is the output of the following code?

```
myt = ('Hi', 'Welcome')  # Line 1
myt[0] = 'Hello'         # Line 2
print(myt)
```

    a. ('Hi', 'Welcome')

    b. Error at Line 2

    c. ('Hello', 'Welcome')

    d. Error at Line 1

24. Which of the following will return Snoopy (*choose all that apply*)?

    a. 'Lucy,Snoopy,Linus'[-12:6]

    b. 'Lucy,Snoopy,Linus'[-12:-6]

    c. 'Lucy,Snoopy,Linus'[5:-6]

    d. 'Lucy,Snoopy,Linus'[5:11]

    e. 'Lucy,Snoopy,Linus'[5:-11]

25. How many parameters are available in the hello function shown below?

```
def hello(name):
    age = 20
    print("hello " + name)
```

    a. 1

    b. 2

    c. 0

26. What is the output of the following code?

```
try:
    raise UndefinedException
    print('try')
except:
    print('except')
    pass
```

    a. NameError: name 'UndefinedException' is not defined

    b. SyntaxError: invalid syntax

    c. except

    d. try

27. Given the code:

```
i = input("Enter a number: ")
try:
    l = list()
    n = (1 / int(i)) + l[2]
except ZeroDivisionError:
    print("ZeroDivisionError")
except IndexError:
    print("IndexError")
except TypeError:
    print("TypeError")
```

What is the output if the input value is 1?

    a. 0.5

    b. IndexError

    c. 1

    d. TypeError

    e. ZeroDivisionError

    f. 3

28. Which exception is raised when you try to access a collecxtion's non-existent element?

    a. KeyError

    b. IndexError

    c. CollectionError

29. What is the output of the following code?

```
school = 'ACC'
def scope_test():
    print(school, end=' ')
    global n
    n = 123
scope_test()
print(n)
```

    a. ACC NameError

    b. ACC SyntaxError

    c. ACC 123

    d. ACC TypeError

30. What is the output of the following code?

```
try:
    n = 1 / 0
except ArithmeticError:
    print("Arithmetic problem!", end=" ")
except ZeroDivisionError:
    print("Zero Division!", end=" ")
print("After Exception")
```

    a. Arithmetic problem!

    b. Zero Division!

    c. Arithmetic problem! Zero Division!

    d. Arithmetic problem! After Exception

    e. Zero Division! After Exception

    f. Arithmetic problem! Zero Division! After Exception

ANSWERS: 1:e,f 2:b 3:b,c 4:a,c 5:c 6:b 7:d 8:e 9:b 10:d 11:c 12:a
13:a,d,e 14: Plan, practice, review, study-study-study
15:b 16:d 17:c 18:d 19:c 20:a,c 21:a 22:c 23:b 24:b,c,d
25:a 26:c 27:b 28:a 29:c 30:d