



Python for Everybody - A Review

TOTAL POINTS 25

1. What is the most common Unicode encoding when moving data between systems?

1 point

- ☐ UTF-64
- ☒ UTF-8
- ☐ UTF-32
- ☐ UTF-128
- ☐ UTF-16

2. What is the decimal (Base-10) numeric value for the upper case letter "G" in the ASCII character set?

1 point

- ☐ 17
- ☐ 2048
- ☒ 71
- ☐ 1771
- ☐ 7

3. What word does the following sequence of numbers represent in ASCII:

1 point

108, 105, 115, 116

- ☐ http
- ☐ open
- ☐ lost
- ☐ fuss
- ☒ list

4. How are strings stored internally in Python 3?

1 point

- ☐ ASCII
- ☐ EBCDIC
- ☐ Latin
- ☐ UTF-16
- ☒ Unicode

5. When reading data across the network (i.e. from a URL) in Python 3, what method must be used to convert it to the internal format used by strings?

1 point

- ☒ decode()
- ☐ convert()
- ☐ more()
- ☐ encode()
- ☐ msub()

6. Which of the following lines will never print out regardless of the value of "x"?

1 point

```
1 if x < 2 :
2     print("Below 2")
3 elif x < 0 :
4     print("Negative")
5 else :
6     print("Something else")
```

- ☐ Something else
- ☐ All the lines will print out
- ☒ Negative
- ☐ Below 2

7. Which of the following lines will never print out regardless of the value for x?

1 point

```
1 if x < 2 :
2     print("Below 2")
3 elif x < 20 :
4     print("Below 20")
5 elif x < 10 :
6     print("Below 10")
7 else :
8     print("Something else")
```

- ☒ Below 10
- ☐ Below 20
- ☐ Something else
- ☐ Below 2

8. What would the following Python code sequence print out?

1 point

```
1 zap = "hello there bob"
2 print(zap[4])
```

- ☐ e
- ☐ zap
- ☐ l
- ☐ hello
- ☐ You would get an out-of-range error and the program would fail
- ☒ o

9. Which of the following lines of Python code contains a syntax error?

1 point

```
1 x = 12
2 if x < 5:
3     print("smaller")
4 else:
5     print("bigger")
```

```
6 print("all done")
```

3

10. What will the following Python program print out?

1 point

```
1 def fred():
2     print("Zap")
3
4 def jane():
5     print("ABC")
6
7 jane()
8 fred()
9 jane()
```

- ☐ Zap ABC Zap
- ☒ ABC Zap ABC
- ☐ Zap ABC jane fred jane
- ☐ ABC Zap jane
- ☐ Zap Zap Zap

11. Where in the computer is a variable such as "X" stored?

1 point

```
1 x = 123
```

- ☒ Main Memory
- ☐ Input Devices
- ☐ Output Devices
- ☐ Central processing unit
- ☐ Secondary Memory

12. What is the primary use of the Python dictionary?

1 point

- ☒ To store key / value pairs
- ☐ To make sure that the definitions of the Python reserved words are available in different languages (French, Spanish, etc)
- ☐ To look up all of the methods which are available on a Python object
- ☐ To insure that all Python reserved words are properly spelled

13. What does the following Python code print out?

1 point

```
1 stuff = ['joseph', 'sally', 'walter', 'tim']
2 print(stuff[2])
```

- ☐ joseph
- ☐ tim
- ☒ walter

☒ sally

14. What will the following Python program print out? (This is a bit tricky so look carefully).

1 point

```
1 def hello():
2     print("Hello")
3     print("There")
4
5 x = 10
6 x = x + 1
```

- ☐ x = 11
- ☒ Nothing will print
- ☐ 11
- ☐ Hello
- ☐ There
- ☐ 11

15. What will the following Python program print out?

1 point

```
1 x = -1
2 for value in [3, 41, 12, 9, 74, 15] :
3     if value > x :
4         x = value
5 print(x)
```

- ☐ 9
- ☐ 15
- ☐ -1
- ☐ 3
- ☒ 74

16. What will the following Python program print out?

1 point

```
1 total = 0
2 for abc in range(5):
3     total = total + abc
4 print(total)
```

- ☐ 6
- ☐ 4
- ☐ 5
- ☐ 16
- ☒ 10

17. The following Python code causes a traceback:

1 point

```
1 x = "123"
```

```

1 a = 100
2 b = 456
3 c = a + b
4 print(c)

```

Which line fails with a traceback?

- ☒ 3
- ☐ 1
- ☐ 2
- ☐ 4

18. In the following example, an error occurs in "line3" that normally causes a traceback if it were not in a try/except.

1 point

```

1 line1
2 try:
3     line2
4     line3
5     line4
6 except:
7     line5
8 line6

```

What is the sequence of lines executed in this program?

- ☐ line1, line5, line6
- ☒ line1, line2, line3, line5, line6
- ☐ line1, line2, line3, line6
- ☐ line1, line4, line5, line6
- ☐ line1, line2, line3, line4, line5, line6

19. What would the following Python code print out?

1 point

```

1 abc = "With three words"
2 stuff = abc.split()
3 print(stuff)

```

- ☐ ['w', 'l', 't', 'h']
- ☐ ['With the', 'ee words']
- ☐ ['With', 'three words']
- ☒ ['With', 'three', 'words']
- ☐ ['With three words']

20. What would the following Python code print out?

1 point

```

1 abc = "With three words"
2 stuff = abc.split()
3 print(len(stuff))

```

- ☐ 16
- ☒ 3
- ☐ 1
- ☐ 14
- ☐ 2

21. Which of the following is not a good synonym for "class" in Python?

1 point

- ☐ pattern
- ☒ direction
- ☐ blueprint
- ☐ template

22. What is "self" typically used in a Python method within a class?

1 point

- ☒ To refer to the instance in which the method is being called
- ☐ To terminate a loop
- ☐ The number of parameters to the method
- ☐ To set the residual value in an expression where the method is used

23. How is a Python socket different than a Python file handle?

1 point

- ☒ The socket does not read all of the data when it is opened
- ☐ You can read and write using the same socket
- ☐ Opening a socket will never fail, while opening a file can fail

24. In the following XML, what is "type"?

1 point

```
1 <person>
2   <name>Chuck</name>
3   <phone type="intl">
4     +1 734 303 4456
5   </phone>
6   <email hide="yes" />
7 </person>
```

- ☒ An attribute
- ☐ XML syntax error
- ☐ Simple element
- ☐ Value
- ☐ Complex element
- ☐ Tag

25. Which programming language serves as the basis for the JSON syntax?

1 point

- ☐ Java
- ☐ PHP
- ☐ SCALA
- ☒ JavaScript
- ☐ Python

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