

Question 1

1 out of 1 points

```
string = "Ali Khaled Musa"

n = len(string)

mystery = string[0] + string[n - 1]

print(mystery)
```

Selected Answer: ☒ B. Aa

- Answers:
- ☐ A. A i
 - ☒ B. Aa
 - ☐ C. Ai
 - ☐ D. A a
 - ☐ E. Ad

Question 2

1 out of 1 points

An IDE environment is like:

Selected Answer: ☒ D. jupyter notebook

- Answer:
- Answers:
- ☐ A. Any text editor
 - ☐ B. None of the answer parts in this question are correct
 - ☐ C. Notebad
 - ☒ D. jupyter notebook
 - ☐ E. Word

Question 3

1 out of 1 points

Which of the following is a must in order for the CPU to process data:

Selected Answer: ☒ B. RAM memory

- Answers:
- ☐ A. ROM memory
 - ☒ B. RAM memory
 - ☐ C. CD or DVD disks
 - ☐ D. hard disk
 - ☐ E. flash disk

Question 4

1 out of 1 points

Which one of the following is correct information about an Algorithm:

Selected Answer: ☒ D.

Answer: It is a specific and detailed sequence of steps that leads to a useful solution.

- Answers:
- ☐ A. Is needed to be developed after writing the code
 - ☐ B. It provides a good methodology for writing test cases using hand calculation of expected program output
 - ☐ C. It executes a program that leads to a useful solution.
 - ☒ D. It is a specific and detailed sequence of steps that leads to a useful solution.
 - ☐ E. None of the answer parts of this question is correct

Question 5

1 out of 1 points

Which of the following answers is part of the problem solving process using software development (check all answer parts that you believe are correct):

Selected Answer: ☒ A.

- Answers:
- ☒ A. Test the algorithm with simple inputs
 - ☒ B. Develop an algorithm
 - ☒ C. Compile and test your program
 - ☒ D. Understand the problem
 - ☒ E. Translate the code into Python language

- Answers:
- ☒ A. Test the algorithm with simple inputs
 - ☒ B. Develop an algorithm
 - ☒ C. Compile and test your program
 - ☒ D. Understand the problem
 - ☒ E. Translate the code into Python language

Question 6

0.75 out of 1 points

Which of the following is true about Python language (check all parts that your believe are correct):

Selected Answer: ☒ B.

- Answers:
- ☐ A. Portable between computer systems.
 - ☒ B. Can try out short Python programs in an interactive environment.
 - ☒ C. Simpler and cleaner syntax than Java, C, and C++.
 - ☒ D. Not as fast as C language
 - ☒ E. Portable between computer systems.

- Answers:
- ☒ A. Needs more time to develop code, compared to Java and C languages
 - ☒ B. Can try out short Python programs in an interactive environment.
 - ☒ C. Simpler and cleaner syntax than Java, C, and C++.
 - ☐ D.
 - ☐ E.

Question 7

1 out of 1 points

What is the output of the following code:

```
s1 = "ABCDEF"

s2 = "ABCDEF"

if s1 > s2:

    comparison = "greater"

else:

    comparison = "smaller"
```

```
if s1 == s2 :
```

```
    print("equal")
```

```
print (comparison)
```

Selected Answer: ☐ smaller

Answers: ☒ D.

Answers: ☐ equal

☐ A.

☐ equal

☐ smaller

☐ B.

☐ equal

☐ C. greater

☐ smaller

☒ D.

☐ greater

☐ E.

Question 8

1 out of 1 points

What is the output of the following code:

```
x = 2.001
```

```
if x**3 > 8 :
```

```
    print("greater")
```

```
else:
```

```
    print("smaller")
```

```
print("equal")
```

Selected Answer: ☐ greater

Answers: ☒ equal

☒ D.

Answers: ☐ smaller

☐ A.

☐ greater

☐ B.

☐ equal

☐ C.

☐ greater

☐ equal

☒ D.

☐ smaller

☐ equal

☐ E.

Question 9

0 out of 1 points

What is the issue or problem with this code:

```
r = 3.0
```

```
areaOfCircle = 2 * 3.14 * r # compute the area of a circle
```

```
print(areaOfCircle)
```

Selected Answer: ☒ A.

Answer: All of the answer parts in this question are incorrect

Answers: ☐ A.

All of the answer parts in this question are incorrect

☐ B. it causes a syntax error

☐ C.

it causes a crash of the program at run time

☐ D.

We can't determine what will happen from the information given

☒ E. it causes a logical error

Question 10

1 out of 1 points

In order for any proper python code to execute, which of the following is needed (select all parts that you believe are correct):

Selected Answers: ☒ A. A compiler

☒ C. byte codes

☒ D. A source code

☒ E. A virtual machine

Answers: ☒ A. A compiler

☐ B. The math library

☒ C. byte codes

☒ D. A source code

☒ E. A virtual machine

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