

Python

Module 1 Lesson 6

Name: _____

Date: _____



Instructions:

1. Students are given 1 hour to complete this test.
2. For the duration of the test, teachers are not allowed to help the students with the answer.
3. Students are to score at least 70% on the test to pass. If they fail, they will have to redo the test again in the next lesson.

Section A – MCQ	/ 10
Section B – Complete the Code	/ 10
Section C – Short Answer Question	/ 10
Section D – Open ended Question	/ 20
	/ 50

Python

Module 1 Lesson 6



Name: _____

Date: _____

Section A: (10 marks)

This is a multiple-choice answer section. Write your answer is the bottom right of each question.

Question 1:

What would the output of the following code be?

Code	
1	X = 'python'
2	print(X[::-1])

- A) python
- B) nohtyp
- C) thonpy
- D) ptoynh

Question 2:

How many lines of output?

Code	
1	def welcome(name):
2	print("Hello", name)
3	
4	welcome("Alice")
5	welcome("Bob")
6	welcome("Carl")

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

Python

Module 1 Lesson 6

Name:

Date:



Section A: (10 marks)

Question 3:

How many lines of output will there be for the following code?

Code	
1	def compute(x, y):
2	print(x*3)
3	print(5*y)
4	compute(1, 2)

- A) 1 line
- B) 2 lines
- C) 3 lines
- D) No output

Question 4:

What is the datatype for the result 10/2?

- A) int
- B) str
- C) float
- D) byte

Python

Module 1 Lesson 6

Name: _____

Date: _____



Section A: (10 marks)

Question 5:

What does X represent in the following function?

Code	
1	<code>X = 5 + 10 % 2</code>
2	<code>print(X)</code>

A) 10

B) 5

C) 2

D) 1

Question 6:

For function parameters, which kind of brackets do we use?

A) Round Brackets “()”

B) Angle Brackets “< >”

C) Curly Brackets “{ }”

D) Square Brackets “[]”

Python

Module 1 Lesson 6

Name: _____

Date: _____



Section A: (10 marks)

Question 7:

Which example means 2 power 3?

- A) $2*3$
- B) $2**3$
- C) $3**2$
- D) $3*2$

Question 8:

What is the difference between % and //?

- A) % refers to floor division while // refers to modulus
- B) // refers to floor division while % refers to modulus
- C) // gives the remainder while % gives the quotient
- D) // and % are the same operator

Python

Module 1 Lesson 6

Name: _____

Date: _____



Section A: (10 marks)

Question 9:

How many arguments can there be in a function?

- A) 1
- B) 2
- C) 5
- D) Infinite

Question 10:

How many types of arguments are there?

- A) One, Required Arguments
- B) Two, Required Arguments and Keyword Arguments
- C) Three, Required Arguments, Keyword Arguments and Default Arguments
- D) Four, Required Arguments, Keyword Arguments, Default Arguments and Important Arguments

Python

Module 1 Lesson 6



Name: _____

Date: _____

Section B: (10 marks)

This is the debugging section. In the next few questions, there are **bugs in the code giving an incorrect output**. The scenarios are shown in each question. Read the requirements carefully.

Identify the bugs and correct them in the table on the right. Each correction is worth 2 marks.

Question 11: (4 marks)

The function *add()* is supposed to take in 2 arguments *x* & *y* and **print** the sum of the 2 arguments *x + y*.

Find the **2 mistakes** and correct them.

add(1,2) should print "The answer is 3"

add(2,3) should print "The answer is 5"

Faulty Code	
1	def add(x,y):
2	ans = x, y
3	print(the answer is ans)
4	
5	add(1, 2)
6	add(2, 3)

Corrected Code	
1	
2	
3	
4	
5	
6	

Question 12: (6 marks)

The function *minus()* is supposed to take in 2 arguments *x* & *y* and **print** *x - y*

Find the **3 mistakes** and correct them.

minus(3,2) should **print** 1

minus(5,3) should **print** 2

Faulty Code	
1	def minus(x,y)
2	ans = a - b
3	print(ANS)
4	
5	minus(3, 2)
6	minus(5, 3)

Corrected Code	
1	
2	
3	
4	
5	
6	

Python

Module 1 Lesson 6

Name: _____

Date: _____



Section C: (10 marks)

This section is a short coding question section. Write the python function as stated in the questions.

Marks are allocated in the question.

Question 13: (1 mark)

Write a **python code** to print **remainder** of 23 divided by 3.

Input	Output
x = 23 y = 3	The remainder of 23 divided by 3 is 2

Question 14: (1 mark)

Write a **python code** to find the **quotient** when 18 is divided by 7.

Input	Output
x = 18 y = 7	The quotient of 18 divided by 7 is 2

Question 15: (2 marks)

Write a **python code** to find the **type** of the result when 8 is divided by 2.

Input	Output
x = 8 y = 2	The type when 8 is divided by 2 is <class 'float'

Python

Module 1 Lesson 6

Name: _____

Date: _____



Section C: (10 marks)

Question 16: (2 marks)

Write a **python code** to **get the output 'gnidoc evol I'** given string *str1*.

Input	Output
str1 = "I love coding!"	!gnidoc evol I

Question 17: (2 marks)

Write a **python code** to **get the output 'cakecakecake'** given string *str2*.

Input	Output
str2 = "I love cake"	cakecakecake

Question 18: (2 marks)

Write a **python code** to **get the output 'InvertedInverted'** given string *str3*.

Input	Output
str3 = "detrevnl"	InvertedInverted

Python

Module 1 Lesson 6

Name:

Date:



Section D: (20 marks)

This section is a long coding question section.

Marks are allocated in the question.

Question 19: (10 marks)

Teacher Mary has **12** students. She is planning to buy sweets to give out to her students. However, she is only able to purchase sweets from the following grocers.

Grocer A: 120 sweets
Grocer B: 150 sweets
Grocer C: 172 sweets
Grocer D: 111 sweets
Grocer E: 78 sweets

Write a **python function** to determine how many sweets each student gets, and how many sweets Teacher Mary will have left if she buys from these grocers.

Sample Function Calls	Sample Output
sweets('A', 120)	Teacher Mary will have 0 sweets left over after giving 10 sweets to her students if she were to buy from Grocer A
sweets('B', 150)	Teacher Mary will have 6 sweets left over after giving 12 sweets to her students if she were to buy from Grocer B
sweets('C', 172)	Teacher Mary will have 4 sweets left over after giving 14 sweets to her students if she were to buy from Grocer C
sweets('D', 111)	Teacher Mary will have 3 sweets left over after giving 9 sweets to her students if she were to buy from Grocer D
sweets('E', 78)	Teacher Mary will have 6 sweets left over after giving 6 sweets to her students if she were to buy from Grocer E

Python

Module 1 Lesson 6

Name: _____

Date: _____



Section D: (20 marks)

This section is a long coding question section.

Marks are allocated in the question.

Question 20: (10 marks)

John works part time to earn some pocket money. However, he clocks in different working hours over 4 weeks. He earns \$10 an hour for his work.

Week 1: 5 hours * \$10 = \$50

Week 2: 21 hours * \$10 = \$210

Week 3: 19 hours * \$10 = \$190

Week 4: 2 hours * \$10 = \$20

Write a **python function** to calculate the amount of money he earns in a week.

Sample Function Calls	Sample Output
salary(1, 5)	In Week 1, John earns \$ 50
salary(2, 21)	In Week 2, John earns \$ 210
salary(3, 19)	In Week 3, John earns \$ 190
salary(4, 2)	In Week 4, John earns \$ 20