**Frage 1:**  
Which keyword is used to define a function in Python?

A. function  
B. def  
C. define  
D. func

**Frage 2:**  
What is the output of this function call?

python

CopyEdit

def greet():

print("Hello!")

greet()

A. Hello!  
B. greet  
C. None  
D. Error

**Frage 3:**  
What is the output?

python

CopyEdit

def square(x):

return x \* x

print(square(4))

A. 8  
B. 16  
C. x \* x  
D. Error

**Frage 4:**  
Which is a correct function definition?

A. def f x: return x + 1  
B. def f(x): return x + 1  
C. function f(x) return x + 1  
D. f(x): return x + 1

**Frage 5:**  
What does this function return?

python

CopyEdit

def add(a, b):

return a + b

print(add(2, 3))

A. 5  
B. 23  
C. Error  
D. a + b

**Frage 6:**  
What is the output of this function?

python

CopyEdit

def identity(x):

return x

result = identity("Python")

print(result)

A. identity  
B. Python  
C. x  
D. Nothing

**Frage 7:**  
What happens if a function has no return statement?

A. It returns 0  
B. It returns None  
C. It returns an error  
D. It prints its name

**Frage 8:**  
What is the output?

python

CopyEdit

def power(base, exponent=2):

return base \*\* exponent

print(power(3))

A. 6  
B. 3  
C. 9  
D. Error

**Frage 9:**  
What is the result of this lambda function?

python

CopyEdit

f = lambda x: x + 5

print(f(2))

A. 7  
B. x + 5  
C. 2 + 5  
D. Error

**Frage 10:**  
What is true about lambda functions?

A. They must be named  
B. They are used for large programs  
C. They are anonymous functions  
D. They are used to define modules

**Frage 11:**  
Which of the following is a recursive function?

A.

python

CopyEdit

def repeat():

print("Again")

B.

python

CopyEdit

def f(x):

return x \* x

C.

python

CopyEdit

def f():

f()

D.

python

CopyEdit

def f(x):

return x + 1

**Frage 12:**  
How do you import the math module?

A. import.math  
B. load math  
C. use math  
D. import math

**Frage 13:**  
What is the output?

python

CopyEdit

import math

print(math.sqrt(16))

A. 8  
B. 4.0  
C. math.sqrt(16)  
D. Error

**Frage 14:**  
What is the correct way to import only the sqrt function?

A. import sqrt from math  
B. from math import sqrt  
C. from sqrt import math  
D. use math.sqrt()

**Frage 15:**  
Which module is used to generate random numbers in Python?

A. math  
B. randomizer  
C. random  
D. numbers

**Answers & Explanations**

**Frage 1:**  
**Answer:** B. def  
**Explanation:** In Python, functions are defined using the def keyword.

**Frage 2:**  
**Answer:** A. Hello!  
**Explanation:** The function greet() prints "Hello!" when called.

**Frage 3:**  
**Answer:** B. 16  
**Explanation:** square(4) returns 4 \* 4 = 16.

**Frage 4:**  
**Answer:** B. def f(x): return x + 1  
**Explanation:** This is the correct Python syntax for a simple function.

**Frage 5:**  
**Answer:** A. 5  
**Explanation:** add(2, 3) returns the sum: 2 + 3 = 5.

**Frage 6:**  
**Answer:** B. Python  
**Explanation:** The function returns the input argument "Python".

**Frage 7:**  
**Answer:** B. It returns None  
**Explanation:** Functions without a return statement automatically return None.

**Frage 8:**  
**Answer:** C. 9  
**Explanation:** power(3) uses the default exponent 2, so 3 \*\* 2 = 9.

**Frage 9:**  
**Answer:** A. 7  
**Explanation:** Lambda returns x + 5; f(2) becomes 2 + 5 = 7.

**Frage 10:**  
**Answer:** C. They are anonymous functions  
**Explanation:** Lambda functions are unnamed (anonymous) and used for short, inline functionality.

**Frage 11:**  
**Answer:** C.

python

CopyEdit

def f():

f()

**Explanation:** This is a recursive function because it calls itself.

**Frage 12:**  
**Answer:** D. import math  
**Explanation:** This is the correct syntax for importing the math module in Python.

**Frage 13:**  
**Answer:** B. 4.0  
**Explanation:** math.sqrt(16) calculates the square root of 16, which is 4.0.

**Frage 14:**  
**Answer:** B. from math import sqrt  
**Explanation:** This imports only the sqrt() function from the math module.

**Frage 15:**  
**Answer:** C. random  
**Explanation:** The random module is used to generate random numbers in Python.