

Math and Coding Q&A

NAME: _____

Date: 1/11/2026

Duration: 60 Minutes

Q. 1 Given a function definition below, which one is called as a parameter?

```
def print_thing(thing):
    print(thing)
```

- a. def
- b. print_thing
- c. thing
- d. print(thing)

Q. 2 Given a function definition below, which one is called as a function name?

```
def print_thing(thing):
    print(thing)
```

- a. def
- b. print_thing
- c. thing
- d. print(thing)

Q. 3 Given a function definition below, which one is called a function body?

```
def print_thing(thing):
    print(thing)
```

- a. def
- b. print_thing
- c. thing
- d. print(thing)

Q. 4 Given a function definition below, is it correct? If no, please justify your answer(write your explanation).

```
def print_thing(thing)
    print(thing)
```

- a. yes
- b. no

Q. 5 Given a function definition below, is it correct? If no, please justify your answer(write your explanation).

```
def print_thing(thing):
    print(thing)
```

- a. yes
- b. no

Q. 6 Which one is correct to define a variable?

- a. `a = 3`
- b. `3 = a`
- c. `a == 3`
- d. `3 == a`

Q. 7 Which one is correct to define a variable?

- a. `a = "d"`
- b. `a = d`
- c. `a == "d"`
- d. `a == d`

Q. 8 Which one is correct to define a variable?

- a. `name = "Harry"`
- b. `a == 3`
- c. `a = d`

Q. 9 Given a function definition below, which one is called a loop variable?

```
foods = ["candy", "ice_cream", "noodle"]
for food in foods:
    print(food)
```

- a. `foods`
- b. `for`
- c. `food`
- d. `print(food)`

Q. 10 Given a function definition below, which one is called an iterable object?

```
foods = ["candy", "ice_cream", "noodle"]
for food in foods:
    print(food)
```

- a. `foods`
- b. `for`
- c. `food`
- d. `print(food)`

Q. 11 Given a function definition below, which one is called code block?

```
foods = ["candy", "ice_cream", "noodle"]
for food in foods:
    print(food)
```

- a. `foods`
- b. `for`
- c. `food`
- d. `print(food)`

Q. 12 Given a function definition below, which is the output?

```
for i in range(1,1):
    print(i)
```

- a. 1
- b. 0 , 1
- c. 1, 1
- d. nothing printed

Q. 13 Given a function definition below, which is the output?

```
for i in range(4,1):
    print(i)
```

- a. 4, 3, 2
- b. 4, 3, 2, 1
- c. 3, 2, 1
- d. nothing printed

Q. 14 Given a function definition below, which is the output?

```
for i in range(1,6,2):
    print(i)
```

- a. 1, 2, 3, 4, 5
- b. 1, 3, 5
- c. 1, 2, 5
- d. 1, 3, 5, 6

Q. 15 Given a function kids below, what is the output of print(kids(1))?

```
def kids(age):
    if 0< age <= 1:
        return 'Baby'
    elif 1<= age < 3:
        return 'Toddler'
    else:
        return 'big kids'
```

- a. Baby
- b. Baby Toddler
- c. Toddler
- d. big kids

Q. 16 Given a function kids below, what is the output of print(kids(2))?

```
def kids(age):
    if 0< age <= 1:
        return 'Baby'
    elif 1<= age < 3:
        return 'Toddler'
    else:
        return 'big kids'
```

- a. Baby
- b. Baby Toddler
- c. Toddler
- d. big kids

Q. 17 Given a function kids below, what is the output of print(kids(4))?

```
def kids(age):
    if 0 < age <= 1:
        return 'Baby'
    elif 1 <= age < 3:
        return 'Toddler'
    else:
        return 'big kids'
```

- a. Baby
- b. Baby Toddler
- c. Toddler
- d. big kids

Q. 18 Given the code below, what is the output?

```
a = 4
b = 4
if a > b :
    print("a is bigger")
else:
    print("b is bigger")
```

- a. a is bigger
- b. b is bigger
- c. nothing printed

Q. 19 Given the code below, what is the output?

```
for i in range(1,3):
    break
    print(i)
```

- a. 1, 2
- b. 1
- c. nothing printed
- d. 2, 3

Q. 20 Given the code below, what is the output?

```
for i in range(1,3):
    print(i)
    break
```

- a. 1, 2
- b. 1
- c. nothing printed
- d. 2, 3

Q. 21 Given the code below, what is the output?

```
for i in range(1,5):
    if i == 3:
        break
    print(i)
```

- a. 1, 2
- b. 1, 2, 3
- c. 1, 2, 3, 4
- d. 1, 2, 4

Q. 22 Given the code below, what is the output?

```
ages = [78, 9]
for age in ages:
    if age >= 55:
        print(age,"is a senior")
    elif age >= 35:
        print(age,"is middle aged")
    else:
        print(age,"is a youth")
```

- a. 78 is a senior 9 is middle aged
- b. 78 is middle aged 9 is a youth
- c. 78 is a senior 78 is middle aged 9 is a youth
- d. 78 is a senior 9 is a youth

Q. 23 Given the code below, what is the output?

```
movies = ["Hermione ", "harry", "harry"]
for i in movies:
    if i == "harry":
        print("harry is found")
        break
    else:
        print("harry is not found")
```

- a. harry is found
- b. harry is not found
- c. harry is found harry is found
- d. harry is not found harry is found

Q. 24 Given the code below, what is the output?

```
a = 3
b = 4
print( a == b)
```

- a. True
- b. False
- c. a = 4
- d. a = b

Q. 25 Given the code below, what is the output?

```
mylist = ["Joseph", "Xinwen", "Claire", "Seraphina", "Jennifer"]
print(mylist[1])
```

- a. Joseph
- b. Xinwen
- c. Claire

c. Joseph Xinwen

Q. 26 Given the code below, what is the output?

```
mylist = [1,3,4,11,7]
print(len(mylist))
```

- a. 1
- b. 11
- c. 5
- d. 7

Q. 27 Given the code below, which one is called as the condition?

```
count = 1
while count <= 3:
    print("Count is ", count)
    count += 1
```

- a. count = 1
- b. count <= 3
- c. count
- d. count += 1

Q. 28 Given the while loop code below, what is the output?

```
i = 10
while i <= 10:
    i = i + 2
    print(i)
```

- a. nothing printed
- b. 10
- c. 12
- d. 14

Q. 29 Given the while loop code below, what is the output?

```
i = 9
while i < 10:
    print(i)
    i = i + 1
```

- a. nothing printed
- b. 9
- c. 10
- d. 11