

100 MCQs (100 Points)

This quiz will NOT be part of your module's grade, just for practise. DO NOT use Spyder to answer these questions. You should expect the actual PA1 questions to be harder. The automatic marking by Microsoft Forms is a bit cranky. The correct answers are indicated by a tick. If your answer is the option indicated with a tick, then you've got the correct answer.

1. Which of the following is an assignment operator in Python?

(1 Point)

Please ignore the red star.

==

<=

>>>

=

2. A user-specified value can be assigned to a variable with this function ...

(1 Point)

Please ignore the red star.

user()

enter()

input()

value()

3. User input is read in as ...?

(1 Point)

Please ignore the red star.

Floating point value

Text String

Boolean value

Integer

4. What will be the output after executing the following statements?

`x=22`

`y=7`

`print(x // y)`

(1 Point)

Please ignore the red star.

3.142857142857143

1

154

3

5. What will be the output after executing the following statements?

`x=5`

`y=4`

`print(x % y)`

(1 Point)

Please ignore the red star.

0

20

1

1.25

6. What will be the output after executing the following statements?

```
x=3  
y=2  
x += y  
print(x)
```

(1 Point)

Please ignore the red star.

- 3
- 2
- 5
- 1

7. What will be the output after executing the following statements?

```
x=5  
y=7  
x *= y  
print(x)
```

(1 Point)

Please ignore the red star.

- 7
- 12
- 5
- 35

8. What will be the output after executing the following statements?

```
x=3  
y=7  
print(x == y)
```

(1 Point)

Please ignore the red star.

- 7

3

True

False

9. What will be the output after executing the following statements?

`x=8`

`y=6`

`print(x != y)`

(1 Point)

Please ignore the red star.

6

True

False

"false"

10. What will be the output after executing the following statements?

`x = True`

`y = False`

`print(x and y)`

(1 Point)

Please ignore the red star.

True

False

0

1

11. What will be the output after executing the following statements?

```
x = True  
y = False  
print(x or y)
```

(1 Point)

Please ignore the red star.

True

False

0

1

12. What will be the output after executing the following statements?

```
x = True  
y = False  
print(not x)
```

(1 Point)

Please ignore the red star.

True

False

0

1

13. What will be the output after executing the following statements?

```
x = 20  
y = 40  
z = [y if y > x else x]  
print(z)
```

(1 Point)

Please ignore the red star.

800

[20]



[40]

False

8

14. What will be the output after executing the following statements?

$$k = [9,8,7,6]$$

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

```
if i % 2 == 0:
```

k[i+1] = i**3

```
print(k)
```

print(*k*)
(1 Point)

Please ignore the red star.

$$\sqrt{3k} = 2^3 = 8$$

- [9, 8, 8]
 - [9, 8, 7, 8]
 - [9, 8, 7, 6, 8]

15. What will be the output after executing the following statements?

```
my_str = "Auron"
```

```
my_str[1] = "a"
```

```
print(my str)
```

Please ignore the red star

- Aaron
 - Aron
 - A[a]ron
 - TypeError

16. What will be the output after executing the following statements?

$$x=2*4+7$$

```
print(x)
```

(1 Point)

Please ignore

Please give the tea stand

- 30
- 22
- 15
- 247

17. What will be the output after executing the following statements?

`x = 7 * (4 + 5)`

`print(x)`

(1 Point)

Please ignore the red star.

- 16
- 33
- 35
- 63

18. Question What will be the output after executing the following statements?

`x = '24' + '16'`

`print(x)`

(1 Point)

Please ignore the red star.

- 40
- 2416
- 21
- 50

19. What will be the output after executing the following statements?

`x = 15 + 35`

`print(x)`

(1 Point)

Please ignore the red star.

40

153

50

1535

What will be the data type of x after executing the following statement if input entered is 18?

`x = input('Enter a number: ')`

(1 Point)

Please ignore the red star.

Integer

Float

String

List

What will be the data type of y after executing the following statement if input entered is 50?

`x = input('Enter a number: ')`

`y = int(x)`

(1 Point)

Please ignore the red star.

Float

String

List

Integer

What will be the data type of y after executing the following statement if input entered is 50?

`x = int(input('Enter a number: '))`

`y = x`

(1 Point)

Please ignore the red star.

Float

String

List

Integer

23. What will be the value of x, y and z after executing the following statement?

`x = y = z = 300`

(1 Point)

Please ignore the red star.

All three will have the value of 3

All three will have the value of 100

All three will have the value of 300

x and y will have arbitrary values, while z will have the value of 300

24. What will be the value of x, y and z after executing the following statement?

`x, y, z = 3, 4, 5`

(1 Point)

Please ignore the red star.

All three will have the value of 3

All three will have the value of 345

- x will have the value of 3, y will have the value 4 and z will have the value of 5
- x and y will have arbitrary values, while z will have the value of 345

25. What will be the output after executing the following statements?

```
x = ['Today', 'Tomorrow', 'Yesterday']  
y = x[1]  
print(y)  
(1 Point)
```

Please ignore the red star.

- x
- Today
- Tomorrow
- Yesterday

26. What will be the output after executing the following statements?

```
x = [10, 20, 30]  
y = x[1] + x[2]  
print(y)  
(1 Point)
```

Please ignore the red star.

- 20
- 30
- 50
- 60

27. What will be the output after executing the following statements?

```
x = [[0.0, 1.0, 2.0],[4.0, 5.0, 6.0]]  
y = x[1][2]  
print(y)  
(1 Point)
```

Please ignore the red star.

- 0.0
- 1.0
- 5.0
- 6.0

28. What will be the output after executing the following statements?

```
x = [[0.0, 1.0, 2.0],[4.0, 5.0, 6.0]]  
y = x[0][1] + x[1][0]  
print(y)
```

(1 Point)

Please ignore the red star.

- 0.0
- 1.0
- 5.0
- 6.0

29. What will be the output after executing the following statements?

```
list1 = [10, 20, [300, 400, [5000, 6000], 500], 30, 40]  
list1[2][2].append(7000)  
print(list1)
```

(1 Point)

Please ignore the red star.

- [10, 20, [300, 400, 7000, 500], 30, 40]
- [10, 20, [300, 400, [5000, 6000, 7000], 500], 30, 40]
- [10, 20, [7000], 30, 40]
- [10, 20, 7000, 30, 40]

30. What will be the output after executing the following statements?

```
x = [5, 4, 3, 2]
x.append(1)
print(x)
(1 Point)
```

Please ignore the red star.

- [5, 4, 3, 3]
- [6, 5, 4, 3]
- [5, 1, 4, 3, 2]
- [5, 4, 3, 2, 1]

31. What will be the output after executing the following statements?

```
x = [50, 40, 30, 20, 10]
print(x.pop(3))
(1 Point)
```

Please ignore the red star.

- 3
- 30
- 20
- 10

32. What will be the output after executing the following statements?

```
h = []
mylist = ["0.5", [1,2], [4,5,6,7], "wow", [8,9,10]]
```

```
for x in mylist:
    if len(x)==3:
        h.append(x)
print(len(h))
(1 Point)
```

Please ignore the red star.

- 4

2

1

3

33. What will be the output after executing the following statements?

```
x = [5, 6, 3, 2, 1]
print(x.index(1))
```

(1 Point)

Please ignore the red star.

6

1

4

5

34. What will be the output after executing the following statements?

```
x = [25, 'Today', 53, 'Sunday', 15]
x.reverse()
print(x)
```

(1 Point)

Please ignore the red star.

['Today', 'Sunday', 15, 25, 53]

[15, 'Sunday', 53, 'Today', 25]

[15, 25, 53, 'Sunday', 'Today']

[15, 25, 53, 'Today', 'Sunday']

35. What will be the output after executing the following statements?

```
x = [25, 'Today', '53', 'Sunday', '15']  
x.sort()  
print(x)  
(1 Point)
```

- ['15', '25', '53', 'Sunday', 'Today']
- TypeError
- ['15', 25, '53', 'Sunday', 'Today']
- [15, 25, 53, 'Today', 'Sunday']

36. What will be the output after executing the following statements?

```
x = [25, 35, 53, 25, 52, 35, 25]  
print(x.count(25))  
(1 Point)
```

Please ignore the red star.

- 7
- 250
- 3
- 0

37. What will be the output after executing the following statements?

```
x = [25, 35, 53, 25, 52, 35, 25]  
print(len(x))  
(1 Point)
```

Please ignore the red star.

- 250
- 3
- 0
- 7

38. What will be the output after executing the following statements?

```
x = [25, 35, 53, 25, 52, 35, 25]
len(x)
print(x)
(1 Point)
```

Please ignore the red star.

- [25, 35, 53, 25, 52, 35, 25]
- 250
- 25
- 7

39. What will be the output after executing the following statements?

```
x = [5, 3, 6, 2, 4, 0, 1]
del x[2:3]
print(x)
(1 Point)
```

Please ignore the red star.

- [5, 3, 4, 0, 1]
- [5, 3, 6, 2, 4, 0, 1, 2, 3]
- [5, 2, 4, 0, 1]
- [5, 3, 2, 4, 0, 1]

40. What will be the output after executing the following statements?

```
x = [5, 3, 6, 2, 4, 0, 7]
del x[:7]
print(x)
(1 Point)
```

Please ignore the red star.

- [5, 7]
- Empty list

[3, 6, 2, 4, 0]

[7]

41. What will be the output after executing the following statements?

```
x = [6, 0, 8]
y = float(x[0] + x[2])
print(y)
```

(1 Point)

Please ignore the red star.

14

68

14.0

60

42. What will be the output after executing the following statements?

```
x = [0,1,2,3,4,5,6,7,8,9,10]
```

`y = x[1:-1]`

`print(y)`

(1 Point)

Please ignore the red star.

[0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

[10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0]

[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

[1, 2, 3, 4, 5, 6, 7, 8, 9]

43. What will be the output after executing the following statements?

```
x = [0,1,2,3,4,5,6,7,8,9,10]
```

`y = x[1:-1:2]`

`print(y)`

(1 Point)

Please ignore the red star.

- [1, 3, 5, 7, 9]
- [1, 4, 7]
- [1, 3, 5, 7, 9, 10]
- [1, 4, 7, 10]

44. What will be the output after executing the following statements?

```
x = [0,1,2,3,4,5,6,7,8,9,10]
y = x[-1:1:-1]
print(y)
```

(1 Point)

Please ignore the red star.

- [9, 8, 7, 6, 5, 4, 3, 2]
- [1, 2, 3, 4, 5, 6, 7, 8, 9]
- [1, 0]
- [10, 9, 8, 7, 6, 5, 4, 3, 2]

45. What will be the output after executing the following statements?

```
x = [0,1,2,3,4,5,6,7,8,9,10]
y = x[5:-9:-1]
print(y)
```

(1 Point)

Please ignore the red star.

- [2, 3, 4, 5]
- [2, 3, 4]
- [5, 4, 3]
- [5, 6, 7, 8, 9]

46. What will be the output after executing the following statements?

```
x = [0,1,2,3,4,5,6,7,8,9,10]
```

```
y = x[9:-9:-3]
```

```
print(y)
```

(1 Point)

Please ignore the red star.

[3, 6, 9]

[9, 6, 3]

[8, 5, 2]

[2, 5, 8]

47. What will be the output after executing the following statements?

```
x = [0,1,2,3,4,5,6,7,8,9,10]
```

```
y = x[-9:-2:4]
```

```
print(y)
```

(1 Point)

Please ignore the red star.

[9, 5, 1]

[1, 5]

[2, 6]

[2, 6, 10]

48. What will be the output after executing the following statements?

```
x = [5,5,9,3,1,8,2,1,4,6,7]
```

```
y = x[-1:-5:-1]
```

```
print(y)
```

(1 Point)

Please ignore the red star.

[6, 4, 1, 2, 8]

[6, 4, 1, 2]

empty list

[7, 6, 4, 1]

49. What will be the output after executing the following statements?

```
x = [5,5,9,3,1,8,2,1,4,6,7]  
y = x[-2:2:-3]  
print(y)
```

(1 Point)

Please ignore the red star.

[6, 2, 3]

[4, 8, 9]

[6, 2, 3, 5]

[7, 4, 8, 9]

50. What will be the output after executing the following statements?

```
x = [5,5,9,3,1,8,2,1,4,6,7]  
y = x[-1:5:-2]  
print(y)
```

(1 Point)

Please ignore the red star.

[7, 4, 2, 1]

[7, 4, 2]

[6, 1, 8]

[6, 1, 8, 3]

51. What will be the output after executing the following statements?

```
x = [5,5,9,3,1,8,2,1,4,6,7]  
y = x[4:9:3]  
print(y)
```

(1 Point)

Please ignore the red star.

[3, 2]

[9, 8, 4]

[5, 5]

[1, 1]

52. What will be the output after executing the following statements?

```
z = ["N", "a", "n", "y", "a", "n", "g"]
y = z[-7:5:2]
print(y)
```

(1 Point)

Please ignore the red star.

['n', 'y', 'a']

['a', 'n', 'N']

['a', 'y', 'n']

['N', 'n', 'a']

53. What will be the output after executing the following statements?

```
z = ["N", "a", "n", "y", "a", "n", "g"]
```

```
y = z[:3]
```

```
print(y)
```

(1 Point)

Please ignore the red star.

['N', 'y', 'g']

['N', 'n', 'n']

['a', 'a', 'g']

['a', 'n', 'a']

54. What will be the output after executing the following statements?

```
z = ["N", "a", "n", "y", "a", "n", "g"]
```

```
y = z[2:5]
```

```
print(y)
```

(1 Point)

Please ignore the red star.

["y", "a", "n"]

["a", "n", "y", "a"]

["n", "y", "a"]

["a", "n", "g"]

55. QuestionWhat will be the output after executing the following statements?

`z = ["N", "a", "n", "y", "a", "n", "g"]`

`y = z[6:1:-2]`

`print(y)`

(1 Point)

Please ignore the red star.

['N', 'a', 'n']

['g', 'a', 'n']

['n', 'a', 'y']

['g', 'n', 'a']

56. What will be the output after executing the following statements?

`q = "Technological"`

`y = q[1:-2]`

`print(y)`

(1 Point)

Please ignore the red star.

lcglnc

aiooh

aioohe

acigolonhce

57. What will be the output after executing the following statements?

`q = "Technological"`

`y = q[-2:-4]`

`print(y)`

(1 Point)

Please ignore the red star.

cig

No output

gic

cigo

58. What will be the output after executing the following statements?

`q = "Technological"`

`y = q[-2:-4:-1]`

`print(y)`

(1 Point)

Please ignore the red star.

aci

lac

laci

ac

59. What will be the output after executing the following statements?

`q = "Technological"`

`y = q[-5:-1]`

`print(y)`

(1 Point)

Please ignore the red star.

ogica

gica

ogical

logic

60. What will be the output after executing the following statements?

`x = [24, 50, 37]`

`y = 24 in x`

`print(y)`

(1 Point)

Please ignore the red star.

- x[0]
- False
- [24]
- True

61. What will be the output after executing the following statements?

```
x = {0:4, 1:8, 2:16, 3:32}  
y = 32 in x  
print(y)
```

(1 Point)

Please ignore the red star.

- 32
- False
- {3:32}
- True

62. What will be the data type of x after executing the following statements?

```
false = "This is not true"  
x = false
```

(1 Point)

Please ignore the red star.

- Boolean
- String
- List
- Tuple

63. What will be the output after executing the following statements?

```
x = {0:4, 1:8, 2:16, 3:32}  
print(x.keys())  
(1 Point)
```

Please ignore the red star.

- dict_keys{0, 1, 2, 3}
- dict_keys(0, 1, 2, 3)
- dict_keys[0, 1, 2, 3]
- dict_keys([0, 1, 2, 3])

64. What will be the output after executing the following statements?

```
x = {1:'Jan', 2:'Feb', 3:'March', 4:'April'}  
print(x[2])  
(1 Point)
```

Please ignore the red star.

- Jan
- Feb
- KeyError
- March

65. What will be the output after executing the following statements?

```
x = {'month1':'Jan', 'month2':'Feb', 3:'March', 4:'April'}  
print(x[2])  
(1 Point)
```

Please ignore the red star.

- Jan
- Feb
- KeyError
- March

66. What will be the output after executing the following statements?

```
x = {0:4, 1:8, 2:16, 3:32}  
print(list(x.values())[2])
```

(1 Point)

Please ignore the red star.

8

{2:16}

16

[16]

67. What will be the output after executing the following statements?

```
x=7  
if x > 5:  
    print(20)
```

(1 Point)

Please ignore the red star.

False

True

7

20

68. What will be the output after executing the following statements?

```
x=5  
if x > 15:  
    print('yes')  
elif x == 15:  
    print('equal')  
else:  
    print('no')
```

(1 Point)

Please ignore the red star.

- equal
- no
- False
- 15

69. What will be the output after executing the following statements?

```
x = 25
if x>10 and x<15:
    print('true')
elif x>15 and x<25:
    print('not true')
elif x>25 and x<35:
    print('false')
else:
    print('not false')
(1 Point)
```

Please ignore the red star.

- true
- false
- not true
- not false

70. What will be the output after executing the following statements?

```
x = 60
if x <= 10 or x >= 75:
    print('true')
elif x <= 15 or x >= 55:
    print('not true')
elif x <= 25 or x >= 35:
    print('false')
else:
    print('not false')
(1 Point)
```

Please ignore the red star.

- true
- false
- not true
- not false

71. What will be the output after executing the following statements?

```
x = 68
if x <= 50 and x >= 25:
    print('true')
elif x <= 60 or x >= 55:
    print('not true')
elif x <= 70 and x >= 35:
    print('false')
else:
    print('not false')
(1 Point)
```

Please ignore the red star.

- true
- false
- not true
- not false

72. What will be the output after executing the following statements?

```
x = 70
if x <= 30 or x >= 100:
    print('true')
elif x <= 50 and x == 50:
    print('not true')
elif x >= 150 or x <= 75:
    print('false')
else:
    print('not false')
(1 Point)
```

Please ignore the red star.

- true
- false
- not true
- not false

73. What will be the output after executing the following statements?

```
x = 40
y = 25
if x + y >= 100:
    print('true')
elif x - y == 50:
    print('not true')
elif x * y >= 900:
    print('false')
else:
    print('not false')
```

(1 Point)

Please ignore the red star.

- true
- false
- not true
- not false

74. What will be the output after executing the following statements?

```
x=0
while x < 10:
    print(x, end="")
    x += 4
```

(1 Point)

Please ignore the red star.

- 0123456789

123456789

048

45678

75. What will be the output after executing the following statements?

```
for i in range(1,25,5):  
    print(i, end=' ')  
(1 Point)
```

Please ignore the red star.

1 5 10 15 20 25

1 5 25

1 6 11 16 21

16111621

76. What will be the output after executing the following statements?

```
for i in range(1,5):  
    print(i, end=' ')  
(1 Point)
```

Please ignore the red star.

123

1234

12345

012345

77. What will be the output after executing the following statements?

```
for i in range(5):  
    print(i, end=' ')  
(1 Point)
```

Please ignore the red star.

- 1234
- 01234
- 12345
- 012345

78. What will be the output after executing the following statements?

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

(1 Point)

Please ignore the red star.

- 12345
- 1234
- 123
- 012345

79. What will be the output after executing the following statements?

```
for i in range(1,5):  
    if i == 3:  
        continue  
    print(i, end=' ')
```

(1 Point)

Please ignore the red star.

- 1 2 3 4 5
- 1 2
- 1 2 3
- 1 2 4

80. What will be the output after executing the following statements?

```
def call(var1, var2):  
    print(var1 + var2, end =")  
call(10, 40)
```

(1 Point)

Please ignore the red star.

- 10
- 1040
- 50
- "10 + 40"

81. What will be the output after executing the following statements?

```
def call(var1=20, var2=5, var3=2):  
    print(var1 * var2 * var3, end =")  
call()
```

(1 Point)

Please ignore the red star.

- 100
- 10000
- 2052
- 200

82. What will be the output after executing the following statements?

```
def call(var1=20, var2=5, var3=2):  
    print(var1 * var2 * var3, end =")  
call(5,7)
```

(1 Point)

Please ignore the red star.

- 57
- 315

70

200

83. What will be the output after executing the following statements?

```
def call(var1=20, var2=5, var3=2):  
    print((var1 * var2) - var3, end =")  
call(var2=5, var3=3, var1=4)
```

(1 Point)

Please ignore the red star.

17

98

70

11

84. What will be the output after executing the following statements?

```
def call(y, x):  
    return x / y  
z = call(4, 9)  
print(z)
```

(1 Point)

Please ignore the red star.

0.444445

2

0

2.25

85. What will be the output after executing the following statements?

```
def call(x,y) :  
    if x == 0:  
        z = x + y  
print(call(0,5))
```

(1 Point)

Please ignore the red star.

5

0

None

True

86. What will be the output after executing the following statements?

```
def call(x,y) :  
    if x == 0:  
        return x + y  
print(call(0,5))
```

(1 Point)

Please ignore the red star.

5

0

None

True

87. What will be the output after executing the following statements?

```
def gen():
    x = 2
    while True:
        yield x
        x += 1

y = gen()
for i in y:
    if i >= 5:
        break
    else:
        print(i, end="")
```

(1 Point)

Please ignore the red star.

- 0123
- 123
- 12345
- 234

88. What does the following statement do?

```
import keyword, sys
```

(1 Point)

Please ignore the red star.

- Imports all the python keywords
- Imports the keyword and sys modules
- Imports the keyword and sys functions
- Imports the directories named keyword and sys

89. What will be the output after executing the following statements?

```
x = 'Python'
print(x[2:4])
```

(1 Point)

Please ignore the red star.

- Pyth
- th
- tho
- thon

90. What will be the output after executing the following statements?

```
x = 'Python'  
print('p' not in x)
```

(1 Point)

Please ignore the red star.

- p
- P
- True
- False

91. What will be the output after executing the following statements?

```
a = 27 / 3 % 2 * 4**2  
print(a)
```

(1 Point)

Please ignore the red star.

- 0
- 4.0
- 16.0
- 32

92. What will be the output after executing the following statements?

```
a = 3 / 3 * 47 - 3**3
```

```
print(a)
```

(1 Point)

Please ignore the red star.

0.0

20.0

36

1.0

93. What will be the output after executing the following statements?

```
a = [1, 3, 5]
```

```
print(a * 2)
```

(1 Point)

Please ignore the red star.

[1, 3, 5, 1, 3, 5]

[1, 2, 3, 5]

[2, 6, 10]

[11, 33, 55]

94. What will be the output after executing the following statements?

```
b=1
```

```
for a in range(1, 10, 3):
```

```
    b += a + 1
```

```
print(b)
```

(1 Point)

Please ignore the red star.

14

16

20

95. What will be the output after executing the following statements?

```
b=1
for a in range(1, 10):
    b += a - 1
print(b)
(1 Point)
```

Please ignore the red star.

47

44

37

38

96. What will be the output after executing the following statements?

```
b=3
for a in range(10, 1):
    b -= a + 1
print(b)
(1 Point)
```

Please ignore the red star.

7

3

4

7

97. What will be the output after executing the following statements?

```
b=1
for a in range(1, 5):
    b *= a + 1
print(b)
(1 Point)
```

Please ignore the red star.

- 240
- 40
- 36
- 120

98. What will be the output after executing the following statements?

```
a = True
b = False
print(a == b or not b)
(1 Point)
```

Please ignore the red star.

- a == b
- False
- not b
- True

99. What will be the output after executing the following statements?

```
x = ["Yesterday's", "Today's", "Tomorrow's"]
y = ['temperature']
for i in x:
    if i[0] != 'T':
        for j in y:
            print(i, end=' ')
(1 Point)
```

Please ignore the red star.

Yesterday's Today's Tomorrow's

Yesterday's

Today's Tomorrow's temperature

False

100. What will be the output after executing the following statements?

`a = 5
print(a > 1 and a**2 >= 25 and a//2 != 2)`

(1 Point)

Please ignore the red star.

None

False

True

Error