

1. Which sentence is not true?

- 1) The computer memory only keeps the data to be processed with the CPU.
- 2) People rarely write a program in machine language instructions.
- 3) People usually develop software with higher-level programming languages which need to be translated into a form that the computer can understand.
- 4) The smallest unit of information that can be processed by digital computers is a single binary digit (a bit).
- 5) Choices 1) and 4).

2. What is the output of the following code fragment?

```
1: i = 1
2: print(i,n)
3: n = input("Please enter a number: ")
```

- 1) Syntax error at line 1.
- 2) **NameError: name 'n' is not defined.**
- 3) Error at line 3 as the variable n should be a number.
- 4) Error at line 3 as function `int()` is missing.
- 5) Both choices 3) and 4) are correct.

3. Which choice is the output of the following code fragment:

```
1: x = 20
2: i = 0
3: if x%2 >= 10:
4:     i = i + x
5:     if i > 10:
6:         i = i // 2
7:     else:
8:         i = i % 2
9: else:
10:    i = i - x
11:    if i%5 < 5:
12:        i = i // 3
13: print(i)
```

- 1) -20
- 2) -7
- 3) 0
- 4) 10
- 5) 20

4. What is the correct Python expression to represent the following mathematical expression?

$$\frac{-6x^3 - 8}{5}$$

- 1) `(-6*x**3-8)/5`
- 2) `-6*x**3-8/5`
- 3) `(-6*x**3-8)*1/5`
- 4) `-(6*x**3-8)/5`
- 5) None of the above choices is correct.

5. The following code fragment computes a daily wage (ค่าจ้าง) according to the number of work hours and an hour rate of hourly employees. If an employee works more than 8 hours, he will receive pay at the overtime rate (10% more) for the extra hours.

Example

```
Enter hours: 10
Enter hour rate: 100
Wage = 1020.00
```

What should be filled in the blank (A) to make the code fragment gives a correct output?

```
def compute_wage(hour,rate):
    (A)

    h = int(input("Enter hours: "))
    r = int(input("Enter hour rate: "))
    wage = compute_wage(h,r)
    print(f"Wage = {wage:.2f}")
```

- 1)

```
if hour <= 8:
    return hour*rate
else:
    return (hour-8)*rate*1.1+hour*rate
```
- 2)

```
if hour <= 8:
    return hour*rate
else:
    return (hour-8)*rate*1.1+(hour*rate)
```
- 3)

```
if hour <= 8:
    return hour*rate
else:
    return (hour-8)*rate*1.1+8*rate
```
- 4)

```
if hour <= 8:
    return hour*rate
else:
    return (hour-8)*rate*0.10+(hour*rate)
```
- 5)

```
if hour <= 8:
    return hour*rate
else:
    return 8*rate*1.1+hour-8*rate
```

6. Which choice is the correct way to call function `add10()` in the blank (A) such that the code fragment can display the correct output?

Example

```
Enter number1: 10
Enter number2: 20
20 30
```

```
def add10(num1,num2):
    return num1+10,num2+10

n1 = int(input("Enter number1: "))
n2 = int(input("Enter number2: "))
(A)
print(num1,num2)
```

- 1) `add10(num1,num2)`
- 2) `add10(n1,n2)`
- 3) `num1,num2 = add10(n1,n2)`
- 4) `num2,num1 = add10(num2=n1,num1=n2)`
- 5) Choices 3) and 4).

7. Which choice is the correct output of the following code fragment?

```
1: def Fx(num1):
2:     num1 = 100
3:     return num1+num2
4:
5: num1 = 10
6: num2 = 20
7: num2 = Fx(num1)
8: print(num1,num2)
```

- 1) 10 20
- 2) 100 20
- 3) 10 120
- 4) 100 120
- 5) 120 100
- 6) Choices 3) and 4).

8. Which choice is the correct output of the following code fragment, if a user enters 10?

```
1: n = int(input())
2: if n//2 > 100:
3:     print("A")
4: elif n%2 >= 4:
5:     print("B")
6: elif n**2 >= 100:
7:     print("C")
8: else:
9:     print("D")
```

- 1) A
- 2) B
- 3) C
- 4) D
- 5) None of the above choices is correct.

9. If we want to find a minimum number of the three integers, what should be filled in the blank (A) to make the code fragment give a correct output?

```
def min_of_three(a,b,c):
    min = a
    (A)
    return min
```

- 1)

```
if b < min:
    min = b
elif c < min:
    min = c
```
- 2)

```
if b < c:
    min = b
elif c < min:
    min = c
```
- 3)

```
if b < a:
    min = b
if c < b:
    min = c
```
- 4)

```
if b < min:
    min = b
if c < min:
    min = c
```
- 5) Choices 3) and 4).

10. What is the output of the following code fragment?

```
print(2*2***2**2+2-2%2//2**2)
```

- 1) 34
- 2) 34.0
- 3) 258
- 4) 258.0
- 5) 0.0

11. What is the output of the following code fragment?

```
1: if 2%3 == 1 and 7/3 > 0:
2:     print('1st condition')
3: elif 2**3 == 3**2:
4:     print('2nd condition')
5: if False:
6:     print('3rd condition')
7: else:
8:     print('No one.')
```

- 1) 1st condition
- 2) 2nd condition
- 3) 3rd condition
- 4) No one.
- 5) The code fragment has a syntax error.

Use the following code fragment and the expected example output to answer the next 2 questions.

```

1: x,y,z = 11,5,1
2:
3: (A)
4:     print(f'x = {x}')
5: if y <= 100 and y < 0:
6:     print(f'y = {y}')
7: else:
8:     if z < 0:
9:         print('Nothing')
10:    elif y == 5 and x < 0:
11:        print(f'z = {z}')
12:    else:
13:        print(f'z = {x-y*2}')

```

Example output:

```

x = 11
z = 1

```

12. What should be put in the blank (A)?

- 1) if x > 10 and x <= 11:
- 2) if x == 11 and y > 10:
- 3) if y == 5 or x == 11:
- 4) if x == 11:
- 5) Choices 1), 3), and 4) are correct.

13. What is the output when line 1 in the code has been changed to `x,y,z = 10,-5,1`?

- 1) y = -5
- 2) x = 10
z = 1
- 3) x = 10
y = -5
- 4) z = 1
- 5) None of the above choices is correct.

14. Which choice will cause an error?

- 1) `int(input('123455'))`
- 2) `K = abs(-9*4**2)`
- 3) `Y = print('x for x in k')`
- 4) `1+2*3-4/5+6*7*8/9-0`
- 5) `float('12.5f')`

15. Given the following code fragment:

```

1: price = 1000
2: vat = 7
3: Total = include_vat(price,vat)
4: print(Total)

```

Which definition of the function `include_vat()` is NOT correct for computing total price of product that includes 7% of VAT?

- 1) `def include_vat(price,vat_percent):
 return price+price*(vat_percent/100)`
- 2) `def include_vat(price,vat_percent):
 return price*(1+(vat_percent/100))`
- 3) `def include_vat(price,vat_percent):
 total = price*(vat_percent/100)
 return total`
- 4) `def include_vat(price,vat_percent):
 vat = vat_percent/100
 total = price*(1+vat)
 return total`
- 5) All of the above choices are correct.

16. Which code fragment causes an error?

A: `y = 10
def f(x):
 return x+y
print(f(20))`

B: `def f(x):
 return x+y
print(f(20))
y = 10`

C: `def f(x):
 return x+y
y = 10
print(f(20))`

- 1) Only A
- 2) Only B
- 3) Only C
- 4) Only B and C
- 5) None of the above

17. Given the following functions:

```

1: def f(x):
2:     return x+2
3:
4: def g(x):
5:     return 2*x

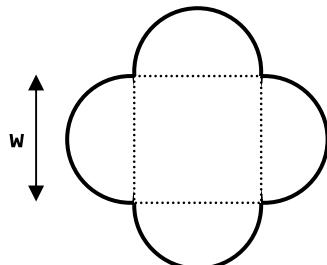
```

What is the value of `g(g(f(f(x+1))))`?

- 1) $2x+4$
- 2) $2x+6$
- 3) $4x+8$
- 4) $4x+16$
- 5) $4x+20$

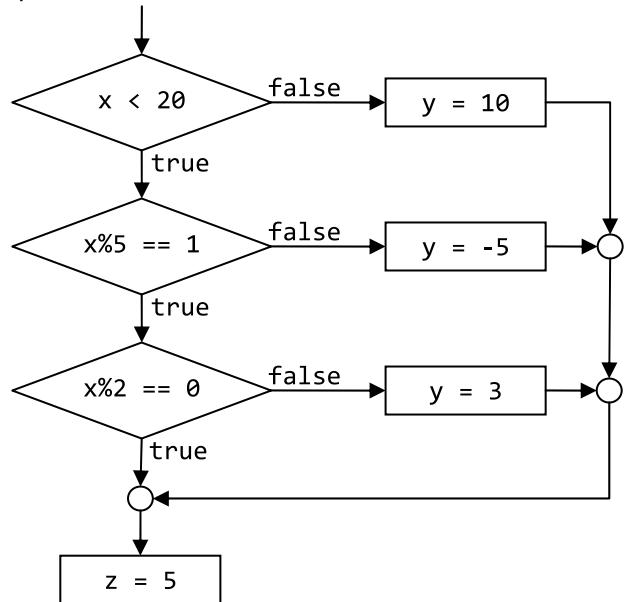
18. What is the expression to fill in the blank (A) to correctly compute the area of the shape below?

```
1: from math import pi
2: def area(w):
3:     return ____ (A)
```



- 1) $w(w+\pi w/2)$
- 2) $w*w+2*\pi*(w/2)$
- 3) $w*w+\pi*w*w$
- 4) $w*w+2*\pi*(w/2)^{**2}$
- 5) $w*(w+\pi)$

Use the following flowchart to answer the next 2 questions.



19. Which value of x guarantees that y will be assigned to 3?

- 1) 11
- 2) 16
- 3) 19
- 4) 22
- 5) 25

20. Which code fragment corresponds to the flowchart?

1)

```
if x < 20:
    if x%5 == 1:
        if x%2 == 0:
            y = 5
        else:
            y = 3
    else:
        y = -5
else:
    y = 10
```

2)

```
if not x < 20:
    y = 10
elif not x%5 == 1:
    y = -5
elif not x%2 == 0:
    y = 3
z = 5
```

3)

```
if not x < 20:
    y = 10
elif not x%5 == 1:
    y = -5
elif not x%2 == 0:
    y = 3
else:
    z = 5
```

4)

```
if x < 20:
    y = 10
elif x%5 == 1:
    y = -5
elif x%2 == 0:
    y = 3
z = 5
```

5)

```
if x < 20:
    y = 10
elif x%5 == 1:
    y = -5
elif x%2 == 0:
    y = 3
else:
    z = 5
```

21. What part of a Python program, when removed, may change the program's behavior?

- 1) An empty line
- 2) A line starting with the character #
- 3) Spaces on the left side of a statement
- 4) Spaces on the right side of a statement
- 5) All of the above

22. Which definition of the `maximum()` function correctly returns the maximum of the given two numbers?

A: `def maximum(a,b):
 if a > b:
 return a
 if a <= b:
 return b`

B: `def maximum(a,b):
 if a > b:
 return a
 else:
 return b`

C: `def maximum(a,b):
 if a > b:
 return a
 if a < b:
 return b`

- 1) Only A
- 2) Only B
- 3) Only C
- 4) Only A and B
- 5) All of A, B and C

23. What is the value of the variable `x` after the code fragment is executed?

1: `def compute(a,b,c):
2: return 2*a + 3*b + c
3: x = compute(c=3,a=0,b=1)`

- 1) 5
- 2) 6
- 3) 7
- 4) 8
- 5) 9

24. Let `x` and `y` be integers. Which is a Boolean expression?

A: `x+y = 5`

B: `x > 5 and y < 7 not 3`

C: `not x < 5 and not y+2 != x`

- 1) Only A
- 2) Only B
- 3) Only C
- 4) Only A and C
- 5) All of A, B and C

Use the following code fragment to answer the next 2 questions.

1: `def f(x,y):
2: x = 100
3: y = 100
4: return x+y,x-y
5: x = 100
6: y = 200
7: x,y = f(y,x)
8: print(x,y)`

25. What is the output of the above code fragment?

- 1) 300 -100
- 2) 200 0
- 3) 200 100
- 4) 0 300
- 5) None of the above choices is correct.

26. If line 7 is changed to:

7: `x,y = f(y=x,x=y)`

What is the output of the above code fragment?

- 1) 300 -100
- 2) 200 0
- 3) 200 100
- 4) 0 300
- 5) None of the above choices is correct.

27. What is an algorithm?

- 1) The input of the problem
- 2) The output of the problem
- 3) The step-by-step instructions to solve the problem
- 4) The problem statement
- 5) The name of the Python inventor

28. Debugging is the process of:

- 1) Identifying inputs of a problem
- 2) Identifying output of a problem
- 3) Removing errors, testing and revising a program to get expected output
- 4) Writing a good code
- 5) None of the above choices is correct.

29. Which values of `absentee_rate`, `midterm`, `final`, and `overall_mark` must be assigned to the following code fragment to show the message "You pass the course." on the screen?

```

1: cond1 = absentee_rate <= 5
2: cond2 = midterm >= 30
3: cond3 = final >= 35
4: cond4 = overall_mark >= 50
5: if cond1 and cond2 and cond3 or cond4:
6:     print("You pass the course.")

```

- 1) `absentee_rate = 6`
`midterm = 35`
`final = 40`
`overall_mark = 45`
- 2) `absentee_rate = 2`
`midterm = 25`
`final = 40`
`overall_mark = 45`
- 3) `absentee_rate = 2`
`midterm = 35`
`final = 30`
`overall_mark = 45`
- 4) `absentee_rate = 2`
`midterm = 35`
`final = 30`
`overall_mark = 55`
- 5) None of the above choices is correct.

30. Which of the following is an invalid Python statement?

- 1) `y = input("Please enter!")`
- 2) `type(10.5)`
- 3) `x = 5`
- 4) `print("//Hello")`
- 5) None of the above choices is valid.

31. What is the Python expression for calculating the following mathematical expression?

$$\frac{n \times (k+1)^2}{2}$$

- 1) `n*(k+1)/2*(k+1)/2`
- 2) `n/2*(k+1)**2`
- 3) `n*(k+1**2)/2`
- 4) `(nk**2+2*nk+n)/2`
- 5) `n/2*math.power(2,k+1)`

32. What is a statement to be filled in the blank (A) to produce the example output?

```

j = 32.5
print("0987654321")
(A)
print("0987654321")

```

Example output:

```

0987654321
32.5
0987654321

```

- 1) `print(f"{j:<6}")`
- 2) `print(f"{j:>6}")`
- 3) `print(f"(32.5:>6)")`
- 4) `print(f"{32:4}.5")`
- 5) Both 2) and 4) are correct.

33. What is the output of the following code fragment?

```

1: def add(m,n):
2:     m = m+1
3:     n = n+2
4:     return n,m
5: m,n = add(n=4,m=7)
6: print(m,n)

```

- 1) 4 7
- 2) 6 8
- 3) 7 4
- 4) 8 6
- 5) 9 5

34. Let `x` and `y` be any integer. Which of the following Boolean expression is NOT logically equivalent to all the rest?

- 1) `(x>2) and (y<3)`
- 2) `(y<3) and not x<=2`
- 3) `not not (x>2) or not (y<3)`
- 4) `not (x<=2 or y>=3)`
- 5) `False or (not (y>=3) and (x>2))`

35. What is the output of the following code fragment?

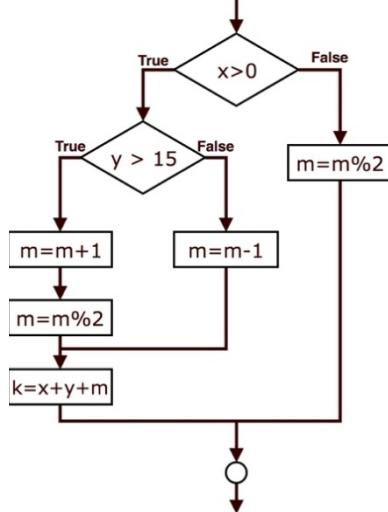
```

1: def A(n):
2:     return n%7 == 0
3: x = 7
4: is_odd = (x%2 == 1)
5: def T(speed):
6:     return not (speed > 80)
7: print(f"{T(80)} {A(80)} {A(x+12)}")

```

- 1) True False False
- 2) True False True
- 3) True True True
- 4) True True False
- 5) False False False

36. From the following flowchart:



Which choice is equivalent to the above flowchart?

1) `if (x > 0):
 if (y > 15):
 m = m+1
 m = m%2
 else:
 m = m-1
 k = x+y+m
else:
 m = m%2`

2) `if (x <= 0):
 m = m%2
else:
 if (y < 15):
 m = m-1
 else:
 m = m+1
 m = m%2
 k = x+y+m`

3) `if (x > 0) and (y > 15):
 m = m+1
 m = m%2
 k = x+y+m
elif (x >= 0) and (y <= 15):
 m = m-1
 k = x+y+m
else:
 m = m%2`

4) `if (x <= 0):
 m = m%2
elif (x > 0) and (y <= 15):
 m = m-1
elif (x > 0) and (y > 15):
 m = m+1
 m = m%2
 k = x+y+m`

5) There is more than one correct answer.

37. What is the output of the following code fragment?

```

1: x = 10
2: y = x+1
3: if (10 < x) or (x <= 10):
4:     print("ant")
5: elif (x < 0) or not(True):
6:     print("bat")
7: elif (x < y):
8:     print("cat")
9: else:
10:    print("dog")
  
```

- 1) ant
- 2) bat
- 3) cat
- 4) dog
- 5) Nothing is displayed.

38. What is the output of the following code fragment?

```

1: def f(x):
2:     if (x >= 1):
3:         return "Hello"
4:     elif (x == 2):
5:         return "2"
6:     else:
7:         return 1
8: print(f(1)+f(2)*f(0))
  
```

- 1) Hello
- 2) Hello2
- 3) 2Hello
- 4) HelloHello
- 5) HelloHelloHello

39. Which inputs display "two" on screen?

```

1: x = int(input())
2: y = int(input())
3: if x > y:
4:     print("one")
5: else:
6:     if y > 10:
7:         print("two")
8:     elif x < 15:
9:         print("three")
10:    else:
11:        print("four")
  
```

- 1) 12
- 2) 20
- 3) 22
- 4) 30
- 5) 9
- 5) None of the above choices is correct.

40. Which function produces different results from the others if input **n** is any integer?

1)

```
def cal(n):
    if n > 5:
        return 'C'
    if n < 3:
        return 'A'
    return 'B'
```

2)

```
def cal(n):
    if n < 3:
        return 'A'
    elif n < 6:
        return 'B'
    return 'C'
```

3)

```
def cal(n):
    if n <= 2:
        return 'A'
    if n <= 5:
        return 'B'
    else:
        return 'C'
```

4)

```
def cal(n):
    if n >= 6:
        return 'C'
    if n <= 2:
        return 'A'
    else:
        return 'B'
```

5) All of above functions produce the same result.

41. Which code fragment can calculate the 12% discounted price of 150 baht and display discounted price to the screen?

1)

```
def cal_price(full_price,discount):
    return discount full_price
print(cal_price(150,12))
```

2)

```
def cal_price(full_price,discount):
    price = full_price/100*100-discount
print(cal_price(150,12))
```

3)

```
def cal_price(discount,full_price):
    print(full_price*
          (100-discount)/100)
cal_price(150,12)
```

4)

```
def cal_price(full_price,discount):
    price = full_price*100-discount/100
cal_price(150,12)
```

5)

```
def cal_price(full_price,discount):
    return ((100-discount)
            *full_price/100)
print(cal_price(150,12))
```

42. Which choice assigns the value of variable **f** in the term of **c** from the mathematic equation below?

$$\frac{c}{5} = \frac{f - 32}{9}$$

- 1) $f = (32+c)/5/9$
- 2) $f-32 = c/5/9$
- 3) $(f-32)/9 = c/5$
- 4) $f = 32+c/5*9$
- 5) None of the above.

43. Assume **x** = 5 and **y** = 2, what is the result of this statement that displays on the screen?

```
print(x+y*x%y, x*y+x**y, x*x+y//x)
```

- 1) 5 (x*y+x**y) 25
- 2) 5 35 25
- 3) 1 (x*y+x**y) 5
- 4) 1 225 5
- 5) None of the above.

44. Which code fragment calculates the $\cos(60^\circ)$?

- 1)

```
import math
math.cos(60)
```
- 2)

```
import Math
Math.cos(60)
```
- 3)

```
import math
math.cos(60*math.pi/180)
```
- 4)

```
import math
math.cos(60*180/math.pi)
```
- 5) None of the above choices is correct.

45. Given the following variable assignments, which Python expression gives different result from the others?

```
a, b = 7, 6
c, d = 7.0, 6.0
e, f = 0.7, 0.6
```

- 1) a/b
- 2) c/d
- 3) $\text{int}(e)/\text{int}(f)$
- 4) $\text{float}(a)/\text{float}(b)$
- 5) $\text{int}(c)/\text{int}(d)$

46. Which statement causes a syntax error?

- 1)

```
print(f'"I am" an engineer.')
```
- 2)

```
print(f'PI is equal {3.14159>.2f}')
```
- 3)

```
print(f"""I'm a good student.""")
```
- 4)

```
print('sin(45) is equal {2**0.5/2}')
```
- 5) None of the above choices causes syntax error.

47. What is the correct Python expression to compute the following mathematical expression?

$$\sqrt{2\pi n} \left(\frac{n}{e}\right)^n$$

- 1) `math.sqrt(2*math.pi*n)*pow(n,n/math.e)`
- 2) `math.sqrt(2*math.pi*n)*n**(n/math.e)`
- 3) `2*math.pi*n**0.5*math.pow(n/math.e,n)`
- 4) `((2*math.pi*n)**0.5)*n/math.e**n`
- 5) `(2*math.pi*n)**0.5*((n/math.e)**n)`

48. Which line of code fragment causes an error?

```

1: a = input('Enter a: ')
2: b = input('Enter b: ')
3: res1 = a + b
4: res2 = a * b
5: print(f'result 1: {res1:^10}')
6: print('result 2: ', res2)

```

- 1) lines 1 and 2
- 2) line 3
- 3) line 4
- 4) line 5
- 5) line 6

49. What should be put into the blanks (A) and (B) to make the following code fragment display the dot product of two vectors correctly? Mathematically, it is defined as:

$$\vec{A} \cdot \vec{B} = |\vec{A}| |\vec{B}| \cos(\theta)$$

```

1: import math
2: def dot_product(a,b,theta):
3:     res = a*b*__ (A__)
4:     __ (B__)
5:
6:     a = float(input('Size of vector A: '))
7:     b = float(input('Size of vector B: '))
8:     theta = float(input(
9:         'Angle A-B (in degree): '))
10:    res = dot_product(a,b,theta)
11:    print(res)

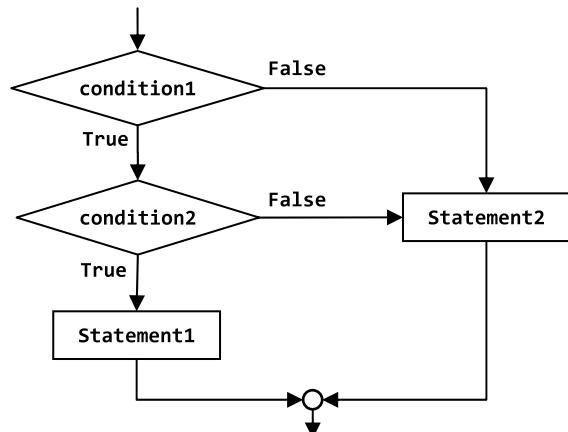
```

- 1) A: `math.cos(theta)`
B: `print(res)`
- 2) A: `math.cos(math.degree(theta))`
B: `return res`
- 3) A: `math.cos(math.degree(theta))`
B: `print(res)`
- 4) A: `math.cos(math.radians(theta))`
B: `return res`
- 5) A: `math.sin(math.radians(theta))`
B: `print(res)`

50. Which Boolean expression can be used as a condition of `if` statement in order to check whether `n` is any odd number from 10 to 30?

- 1) `n >= 10 and n <= 30 and n%2 == 0`
- 2) `not(n >= 30 or n <= 10) and n%2 == 1`
- 3) `n >= 10 or n <= 30 or n%2 != 0`
- 4) `n >= 10 and n <= 30 and n//2 == 0`
- 5) `not n <= 10 or n >= 30 and n%2 != 0`

51. Which of the following code is equivalent to this flowchart?



1) `if condition1 and condition2:
 statement1
else:
 statement2`

2) `if condition1:
 if condition2:
 statement1
else:
 statement2`

3) `if condition1:
 if condition2:
 statement1
 else:
 statement2`

4) `if condition1 or condition2:
 statement1
else:
 statement2`

5) `if not condition1:
 statement2
elif condition2:
 statement1`

52. Which choice has a different result from the expression $5+4/3 < 3$?

- 1) `not (50 >= 14)`
- 2) `3+8 >= 15 or 5 <= 3`
- 3) `3-4 <= 10 and 3 > 3`
- 4) `14/7 < 1 or not (9 < 4)`
- 5) `7%3+13%4 != 2`

53. Which choice is the result of the following code fragment?

```

1: def func1(c):
2:     b = 7
3:     b = b - a
4:     c = c * b
5:     return c
6: a = 2
7: b = 5
8: c = 11
9: a = func1(b)
10: print(a)

```

- 1) 2
- 2) 15
- 3) 25
- 4) 33
- 5) 55

54. What is the result after executing the following code fragment if user inputs **10** for variable **a** and **15** for variable **b**?

```

1: a = int(input())
2: b = int(input())
3: if a > 10:
4:     c = 5
5:     if b > 12:
6:         c = c+b
7:     else:
8:         c = c+a
9:     d = int(input())
10:    else:
11:        c = 12
12: print(c)

```

- 1) **10** is displayed on the screen.
- 2) **12** is displayed on the screen.
- 3) **15** is displayed on the screen.
- 4) **20** is displayed on the screen.
- 5) There is a syntax error.

55. Which one gives a different result from the others?

- 1) `(3**2**4)**(1/2)`
- 2) `math.sqrt((3**2)**4)`
- 3) `math.pow(3**2,4)**0.5`
- 4) `math.sqrt(math.pow(3,2)**4)`
- 5) `math.sqrt(math.pow(math.pow(3,2),4))`

56. What could be a problem of this code fragment?

```

1: def myfunction(a,b):
2:     if a > b:
3:         return a+b
4:     elif b == a:
5:         return a-b
6:     elif a < b:
7:         return a*b
8:     else:
9:         return a/b
10:
11: a = 10
12: b = 20
13: result = myfunction(a,b)

```

- 1) There is no error and nothing is wrong with this program.
- 2) There is no error, but the logic may be wrong because line 9 is never executed.
- 3) The program has a syntax error because of incorrect Boolean expressions.
- 4) The program has a syntax error because the defined function returns value incorrectly.
- 5) Program cannot be executed as there is a syntax error.

57. What is the result after executing the following code fragment?

```

1: a = 5
2: 1+2+3+4+5
3: b = 10*a
4: print(b)

```

- 1) 50
- 2) 15
50
- 3) 5
15
50
- 4) 5
15
50
50
- 5) There is a syntax error.

58. What is the result after executing the following code

fragment?

```
1: def myfunction(a):
2:     if a > b:
3:         return a+b
4:     else:
5:         return a-b
6:
7: a = 20
8: b = 10
9: result = myfunction(a)
10: print(result)
```

- 1) **10** is displayed on the screen.
- 2) **20** is displayed on the screen.
- 3) **30** is displayed on the screen.
- 4) There is a syntax error because the defined function is incorrectly written.
- 5) There is a syntax error because **b** is not defined in the function.

59. What is the most appropriate data type to store a phone number?

- 1) **int**
- 2) **float**
- 3) **string**
- 4) **bool**
- 5) Choices 1), 2) and 3) are correct.

60. Which Boolean expression is NOT equivalent to the statement "**i** is an even number"?

- 1) **i%2 < 1**
- 2) **i%2 == 0**
- 3) **i%2 != 1**
- 4) **not (i%2 > 0)**
- 5) **not (i%2 != 1)**