

Dr. Babasaheb Ambedkar Technological University's

**Institute of Petrochemical Engineering, Lonere**

**Diploma in Computer Engineering**

**Subject: Programming In Python**

**Course code: DCE3201**

**Semester: VI**

**Sub Incharge: Ms. Ovhal S.B.**

**Question Bank**

**Unit I: Introduction to Python Programming**

1. Python was developed by
  - A. Guido van Rossum
  - B. James Gosling
  - C. Dennis Ritchie
  - D. Bjarne Stroustrup
  
2. Python was developed in which year?
  - A. 1972
  - B. 1995
  - C. 1989
  - D. 1981
  
3. What is the extension of python file?
  - A. .p
  - B. .py
  - C. .python
  - D. None of the above
  
4. Python is Object Oriented Programming Language.
  - A. True
  - B. False
  - C. Neither true nor false
  - D. None of the above
  
5. Python 3.0 is released in which year?
  - A. 2000
  - B. 2008
  - C. 2011
  - D. 2016
  
6. Which of the following statements is true?
  - A. Python is a high level programming language.
  - B. Python is an interpreted language.
  - C. Python is an object-oriented language
  - D. All of the above

7. What is used to define a block of code in Python?
- A. Parenthesis
  - B. Indentation
  - C. Curly braces
  - D. None of the above
8. By the use of which character, single line is made comment in Python?
- A. \*
  - B. @
  - C. #
  - D. !
9. What is a python file with .py extension called?
- A. package
  - B. module
  - C. directory
  - D. None of the above
10. What will be the output of the following program on execution?
- ```
a=0
b=5
x=(a&b)|(a&a)|(a|b)
print("x")
```
- A. 1
  - B. 5
  - C. 0
  - D. None of the above
11. What will be the output of the following program on execution?
- ```
if False:
```

```
    print ("inside if block")
```

```
elif True:
```

```
    print ("inside elif block")
```

```
else:
```

```
    print ("inside else block")
```

- A. inside if block
- B. inside elif block

- C. inside else block
- D. Error

12. Which of the following is incorrect variable name in Python?

- A. variable\_1
- B. variable1
- C. 1variable
- D. \_variable

13. Which one of the following is correct way of declaring and initialising a variable, x with value 5?

- A. int x  
x=5
- B. int x=5
- C. x=5
- D. declare x=5

14. Which of the following is incorrect regarding variables in Python?

- A. Variable names in Python cannot start with number. However, it can contain number in any other position of variable name.
- B. Variable names can start with an underscore.
- C. Data type of variable names should not be declared
- D. None of the above

15. Which of the following will give error?

- A. a=b=c=1
- B. a,b,c=1
- C. a,b,c=1, "python", 1.5
- D. None of the above

16. How many keywords are there in python 3.7?

- A. 32
- B. 33
- C. 31
- D. 30

17. What is the maximum length of an identifier in python?

- A. 32
- B. 31
- C. 63
- D. None of the above

18. All keyword in python are in

- A. Lowercase
- B. Uppercase
- C. Both uppercase & Lowercase

D. None of the above

19. Which of the following statement is False?

- A. Variable names can be arbitrarily long.
- B. They can contain both letters and numbers.
- C. Variable name can begin with underscore.
- D. Variable name can begin with number.

20. Which of the following is a valid variable?

- A. var@
- B. 32var
- C. class
- D. abc\_a\_c

21. Why are local variable names beginning with an underscore discouraged?

- A. they confuse the interpreter
- B. they are used to indicate a private variables of a class
- C. they are used to indicate global variables
- D. they slow down execution

22. Which of the following is not a relational operator in Python?

- A. >=
- B. <=
- C. =
- D. !=

23. What is the output of the following program : `print((1, 2) + (3, 4))`

- A. (1, 2), (3, 4)
- B. (4, 6)
- C. (1, 2, 3, 4)
- D. Invalid Syntax

24. Which one of the following is mutable data type?

- A. set
- B. int
- C. str
- D. tuple

25. Which one of the following is immutable data type?

- A. list
- B. set
- C. int
- D. dict

26. Which of these are keyword?

- A. in
- B. is
- C. assert
- D. All of the above

27. What is the output of the following code : `print 5//2`

- A. 2

- B. 2.5
- C. 2.0
- D. Error

28. Is Python case sensitive when dealing with identifiers?

- a) yes
- b) no
- c) machine dependent
- d) none of the mentioned

29. Which of the following is invalid?

- a) `_a = 1`
- b) `__a = 1`
- c) `__str__ = 1`
- d) none of the mentioned

30. Which of the following is true for variable names in Python?

- a) unlimited length
- b) all private members must have leading and trailing underscores
- c) underscore and ampersand are the only two special characters allowed
- d) none of the mentioned

31. Which of the following is an invalid statement?

- a) `abc = 1,000,000`
- b) `a b c = 1000 2000 3000`
- c) `a,b,c = 1000, 2000, 3000`
- d) `a_b_c = 1,000,000`

32. Which of the following cannot be a variable?

- a) `__init__`
- b) `in`
- c) `it`
- d) `on`

33. Which is the correct operator for power( $x^y$ )?

- a) `X^y`
- b) `X**y`
- c) `X^^y`
- d) None of the mentioned

34. Which one of these is floor division?

- a) `/`
- b) `//`
- c) `%`
- d) None of the mentioned

35. What is the order of precedence in python?

- i) Parentheses
- ii) Exponential
- iii) Multiplication
- iv) Division

- v) Addition
- vi) Subtraction

- a) i,ii,iii,iv,v,vi
- b) ii,i,iii,iv,v,vi
- c) ii,i,iv,iii,v,vi
- d) i,ii,iii,iv,vi,v

36. What is the answer to this expression,  $22 \% 3$  is?

- a) 7
- b) 1
- c) 0
- d) 5

37. Mathematical operations can be performed on a string.

- a) True
- b) False
- c) True in some cases
- d) None of the above

38. Operators with the same precedence are evaluated in which manner?

- a) Left to Right
- b) Right to Left
- c) Can't say
- d) None of the mentioned

39. What is the output of this expression,  $3*1**3$ ?

- a) 27
- b) 9
- c) 3
- d) 1

40. Which one of the following has the highest precedence in the expression?

- a) Exponential
- b) Addition
- c) Multiplication
- d) Parentheses

41. Which of these is not a core data type?

- a) Lists
- b) Dictionary
- c) Tuples
- d) Class

42. What is the return type of function `id`?

- a) int
- b) float
- c) bool
- d) dict

43. What error occurs when you execute the following Python code snippet?

```
apple = mango
```

- a) SyntaxError
- b) NameError
- c) ValueError
- d) TypeError

44. Which of the following results in a SyntaxError?

- a) `"""Once upon a time...", she said.'`
- b) `"He said, 'Yes!'"`
- c) `'3\'`
- d) `"""That's okay"""`

45. What is the average value of the following Python code snippet?

```
1. >>> grade1 = 80
2. >>> grade2 = 90
3. >>> average = (grade1 + grade2) / 2
```

- a) 85.0
- b) 85.1
- c) 95.0
- d) 95.1

46. Select all options that print.

hello-how-are-you

- a) `print('hello', 'how', 'are', 'you')`
- b) `print('hello', 'how', 'are', 'you' + '-' * 4)`
- c) `print('hello-' + 'how-are-you')`
- d) `print('hello' + '-' + 'how' + '-' + 'are' + 'you')`

47. What is the output of `print 0.1 + 0.2 == 0.3`?

- a) True
- b) False
- c) Machine dependent
- d) Error

48. Which of the following is not a complex number?

- a) `k = 2 + 3j`
- b) `k = complex(2, 3)`
- c) `k = 2 + 3l`
- d) `k = 2 + 3J`

49. Evaluate the expression given below if `A = 16` and `B = 15`.

```
A % B // A
```

- a) 0.0
- b) 0
- c) 1.0

d) 1

50. Which of the following operators has its associativity from right to left?

- a) +
- b) //
- c) %
- d) \*\*

51. What will be the value of x in the following Python expression?

```
x = int(43.55+2/2)
```

- a)43
- b)44
- c)22
- d) 23

52. What is the value of the following expression?

```
2+4.00, 2**4.0
```

- a) (6.0, 16.0)
- b) (6.00, 16.00)
- c) (6, 16)
- d) (6.00, 16.0)

53. Which of the following is the truncation division operator?

- a) /
- b) %
- c) //
- d) |

54. What are the values of the following Python expressions?

```
2**(3**2)
```

```
(2**3)**2
```

```
2**3**2
```

- a)64,512,64
- b)64, 64, 64
- c) 512, 512, 512
- d) 512, 64, 512

55. What is the value of the following expression?

```
8/4/2, 8/(4/2)
```

- a) (1.0, 4.0)
- b) (1.0, 1.0)
- c) (4.0, 1.0)
- d) (4.0, 4.0)

56. What will be the output of the following Python code snippet if x=1?

```
x<<2
```

- a) 8
- b) 1
- c) 2
- d) 4

57. What will be the output of the following Python expression?

```
bin(29)
```

- a) '0b10111'
- b) '0b11101'
- c) '0b11111'
- d) '0b11011'

58. What will be the value of x in the following Python expression, if the result of that expression is 2?

```
x>>2
```

- a) 8
- b) 4
- c) 2
- d) 1

59. What will be the output of the following Python expression?

```
int(1011)?
```

- a) 1011
- b) 11
- c) 13
- d) 1101

60. Which of the following represents the bitwise XOR operator?

- a) &
- b) ^
- c) |
- d) !

61. The one's complement of 110010101 is:

- a) 001101010
- b) 110010101
- c) 001101011
- d) 110010100

62. Bitwise \_\_\_\_\_ gives 1 if either of the bits is 1 and 0 when both of the bits are 1.

- a) OR
- b) AND
- c) XOR
- d) NOT

63. Which of the following expressions can be used to multiply a given number 'a' by 4?

- a)  $a \ll 2$
- b)  $a \ll 4$
- c)  $a \gg 2$
- d)  $a \gg 4$

64. What is the two's complement of -44?

- a) 1011011
- b) 11010100
- c) 11101011
- d) 10110011

65. What will be the output of the following Python expression?

$4^{12}$

- a) 2
- b) 4
- c) 8
- d) 12

## Unit II: Decision Statements

66. Which of the following is not used as loop in Python?

- A. for loop
- B. while loop
- C. do-while loop
- D. None of the above

67. Which of the following is False regarding loops in Python?

- A. Loops are used to perform certain tasks repeatedly.
- B. While loop is used when multiple statements are to executed repeatedly until the given condition becomes False
- C. While loop is used when multiple statements are to executed repeatedly until the given condition becomes True.
- D. for loop can be used to iterate through the elements of lists.

68. Which of the following is True regarding loops in Python?

- A. Loops should be ended with keyword "end".
- B. No loop can be used to iterate through the elements of strings.
- C. Keyword "break" can be used to bring control out of the current loop.
- D. Keyword "continue" is used to continue with the remaining statements inside the loop.

69. How many times will the loop run?

i=2

```
while(i>0):
```

```
    i=i-1
```

- A. 2
- B. 3
- C. 1
- D. 0

70. Which one of the following is a valid Python if statement :

- A. if a>=2 :
- B. if (a >= 2)
- C. if (a => 22)
- D. if a >= 22

71. What keyword would you use to add an alternative condition to an if statement?

- A. else if
- B. elseif
- C. elif
- D. None of the above

72. Can we write if/else into one line in python?

- A. Yes
- B. No
- C. if/else not used in python
- D. None of the above

73. In a Python program, a control structure:

- A. Defines program-specific data structures
- B. Directs the order of execution of the statements in the program
- C. Dictates what happens before the program starts and after it terminates
- D. None of the above

74. Which statement will check if a is equal to b?

- A. if a = b:
- B. if a == b:
- C. if a === c:
- D. if a == b

75. Does python have switch case statement?

- A. True
- B. False
- C. Python has switch statement but we can not use it.
- D. None of the above

76. What will be the output of the following Python code?

```
x = ['ab', 'cd']  
  
for i in x:  
    i.upper()  
  
print(x)
```

- a) ['ab', 'cd']
- b) ['AB', 'CD']
- c) [None, None]
- d) none of the mentioned

77. What will be the output of the following Python code?

```
i = 1
```

```
while True:

    if i%3 == 0:

        break

    print(i)

    i += 1
```

- a) 1 2
- b) 1 2 3
- c) error
- d) none of the mentioned

78. What will be the output of the following Python code?

```
i = 1

while True:

    if i%2 == 0:

        break

    print(i)

    i += 2
```

- a) 1
- b) 1 2
- c) 1 2 3 4 5 6 ...
- d) 1 3 5 7 9 11 ...

79. What will be the output of the following Python code?

```
i = 2

while True:

    if i%3 == 0:

        break

    print(i)

    i += 2
```

- a) 2 4 6 8 10 ...
- b) 2 4

- c) 2 3
- d) error

80. What will be the output of the following Python code?

```
i = 1
while False:
    if i%2 == 0:
        break
    print(i)
    i += 2
```

- a) 1
- b) 1 3 5 7 ...
- c) 1 2 3 4 ...
- d) none of the mentioned

81. What will be the output of the following Python code?

```
True = False
while True:
    print(True)
    break
```

- a) True
- b) False
- c) None
- d) none of the mentioned

82. What will be the output of the following Python code?

```
x = 123
for i in x:
    print(i)
```

- a) 1 2 3
- b) 123
- c) error
- d) none of the mentioned

83. What will be the output of the following Python code?

```
d = {0: 'a', 1: 'b', 2: 'c'}
```

```
for i in d:
```

```
    print(i)
```

- a) 0 1 2
- b) a b c
- c) 0 a 1 b 2 c
- d) none of the mentioned

84. What will be the output of the following Python code?

```
x = 'abcd'
```

```
for i in x:
```

```
    print(i)
```

```
    x.upper()
```

- a) a B C D
- b) a b c d
- c) A B C D
- d) error

85. What will be the output of the following Python code?

```
x = 'abcd'
```

```
for i in range(len(x)):
```

```
    print(i)
```

- a) a b c d
- b) 0 1 2 3
- c) error
- d) 1 2 3 4

86. What is the result of x? when,  $x=(2+2)//2-1*(2-1)+6$

- a) 2
- b) 4
- c) 7
- d) 6

87. What will be the output of the following Python code?

```
for i in range(10):
```

```
if i == 5:
    break
else:
    print(i)
else:
    print("Here")
```

- a) 0 1 2 3 4 Here
- b) 0 1 2 3 4 5 Here
- c) 0 1 2 3 4
- d) 1 2 3 4 5

88. What will be the output of the following Python code?

```
for i in range(5):
    if i == 5:
        break
    else:
        print(i)
else:
    print("Here")
```

- a) 0 1 2 3 4 Here
- b) 0 1 2 3 4 5 Here
- c) 0 1 2 3 4
- d) 1 2 3 4 5

89. What will be the output of the following Python code snippet?

```
['hello', 'morning'][bool("")]
```

- a) error
- b) no output
- c) hello
- d) morning

90. What will be the output of the following Python code?

```
class Truth:
```

```
pass
```

```
x=Truth()
```

```
bool(x)
```

- a) pass
- b) true
- c) false
- d) error

91. Which of the following Boolean expressions is not logically equivalent to the other three?

- a)  $\text{not}(-6 < 0 \text{ or } -6 > 10)$
- b)  $-6 \geq 0 \text{ and } -6 \leq 10$
- c)  $\text{not}(-6 < 10 \text{ or } -6 == 10)$
- d)  $\text{not}(-6 > 10 \text{ or } -6 == 10)$

92. What will be the output of the following Python code snippet?

```
not(10<20) and not(10>30)
```

- a) True
- b) False
- c) Error
- d) No output

93. What will be the output of the following Python code?

```
for i in range(int(2.0)):
```

```
    print(i)
```

- a) 0.0 1.0
- b) 0 1
- c) error
- d) none of the mentioned

94. What is the output of the following for loop and `range()` function

```
for num in range(-2,-5,-1):
```

```
    print(num, end=" ")
```

- a) -2, -1, -3, -4
- b) -2, -1, 0, 1, 2, 3,
- c) -2, -1, 0
- d) -2, -3, -4,

95. What is the output of the following `if` statement

```
a, b = 12, 5
if a + b:
    print('True')
else:
    print('False')
```

a) True b) false c) cant say d) none of the above

96. What does the following code print to the console?

```
if "cat" == "dog":
    print("prrrr")
else:
    print("ruff")
```

a) prrrr b) ruff c) error d) none of the above

97. What does the following code print to the console?

```
if 5 > 10:
    print("fan")
elif 8 != 9:
    print("glass")
else:
    print("cream")
```

a) fan b) glass c) cream d) error

98. What does the following code print to the console?

```
name = "maria"
if name == "melissa":
    print("usa")
elif name == "mary":
    print("ireland")
else:
    print("colombia")
```

a) melissa b) Ireland c) colombia d) error

99. What does the following code print to the console?

```
if 88 > 100:
```

```
    print("cardio")
```

- a)100   b)88   c)cardio   d)nothing is printed on the screen

100. What does the following code print to the console?

```
if 1:
```

```
    print("1 is truthy!")
```

```
else:
```

```
    print("???)
```

- a)???   b)1 is truthy!   C)error   d)none of the above

101. What does the following code print to the console?

```
if 0:
```

```
    print("huh?")
```

```
else:
```

```
    print("0 is falsy!")
```

- a) 0 is falsy!   b)huh?   C)error   d)none of the above

102. In Python, how are arguments passed?

- A. pass by value
- B. pass by reference
- C. It gives options to user to choose
- D. Both A and B

103. Which among the following are mutable objects in Python?

- (i) List
- (ii) Integer
- (iii) String
- (iv) Tuple

- A. i only
- B. i and ii only
- C. iii and iv only
- D. iv only

104. In which part of memory does the system stores the parameter and local variables of funtion call?

- A. heap
- B. stack
- C. Uninitialized data segment
- D. None of the above

105. What will be the output of the following Python statement?

```
1. >>>print('new' 'line')
```

- a) Error
- b) Output equivalent to print 'new\nline'
- c) newline
- d) new line

106. What will be the output of the following Python code?

```
print(0xA + 0xB + 0xC)
```

- a) 0xA0xB0xC
- b) Error
- c) 0x22
- d) 33

107. What will be the output of the following Python code?

```
1. >>>max("what are you")
```

- a) error
- b) u
- c) t
- d) y

108. What will be the output of the following Python code?

```
class Truth:
```

```
    pass
```

```
x=Truth()
```

```
bool(x)
```

- a) pass
- b) true
- c) false
- d) error

109. What will be the output of the following Python function?

```
any([2>8, 4>2, 1>2])
```

- a) Error
- b) True

- c) False
- d) 4>2

110. What will be the output of the following Python function?

```
sum(2,4,6)
```

```
sum([1,2,3])
```

- a) Error, 6
- b) 12, Error
- c) 12, 6
- d) Error, Error

## Unit III: Functions and String

111. Which of the following is incorrect way of using an argument while defining a function in Python, where var1 and var2 are two arguments?

- A. def fn(var1, var2)
- B. def fn(var1, var2=5)
- C. def fn(\*var1, var2)
- D. def fn(var1,\*var2)

112. Which of the following is not a type of argument in Python?

- A. Keyword
- B. Variable argument count
- C. Positional
- D. None of these

113. What will be the output of the following Python code?

```
def function1(var1=5, var2=7):
```

```
    var2=9
```

```
    var1=3
```

```
    print (var1, " ", var2)
```

function1(10,12)

- A. 5 7
- B. 3 9
- C. 10 12
- D. Error

114. Which keyword is use for function?

- A. define
- B. fun
- C. def
- D. function

115. Which of the following items are present in the function header?

- A. function name
- B. parameter list
- C. return value
- D. Both A and B

116. What is called when a function is defined inside a class?

- A. class
- B. function
- C. method
- D. module

117. If return statement is not used inside the function, the function will return:

- A. None
- B. 0
- C. Null
- D. Arbitrary value

118. What is a recursive function?

- A. A function that calls other function.
- B. A function which calls itself.
- C. Both A and B
- D. None of the above

119. Which of the following is the use of id() function in python?

- A. Id() returns the size of object.
- B. Id() returns the identity of the object.
- C. Both A and B
- D. None of the above

120. Which of the following function headers is correct?

- A. def fun(a = 2, b = 3, c)
- B. def fun(a = 2, b, c = 3)
- C. def fun(a, b = 2, c = 3)
- D. def fun(a, b, c = 3, d)

121. How is a function declared in Python?

- A. def function function\_name():
- B. declare function function\_name():

- C. `def function_name():`
- D. `declare function_name():`

122. Which one of the following is the correct way of calling a function?

- A. `function_name()`
- B. `call function_name()`
- C. `ret function_name()`
- D. `function function_name()`

123. What will be the output of above Python code?

```
str1="6/4"
```

```
print("str1")
```

- A. 1
- B. 6/4
- C. 1.5
- D. str1

124. Which of the following will result in an error?

```
str1="python"
```

- A. `print(str1[2])`
- B. `str1[1]="x"`
- C. `print(str1[0:9])`
- D. Both (b) and (c)

125. Which of the following is False?

- A. String is immutable.
- B. `capitalize()` function in string is used to return a string by converting the whole given string into uppercase.
- C. `lower()` function in string is used to return a string by converting the whole given string into lowercase.
- D. None of these.

126. What will be the output of below Python code?

```
str1="Information"
```

```
print(str1[2:8])
```

- A. format
- B. formatio
- C. orma
- D. ormat

127. What will be the output of below Python code?

```
str1="Aplication"
```

```
str2=str1.replace('a','A')
```

```
print(str2)
```

- A. application
- B. Application
- C. ApplicAtion
- D. applicAtion

128. What will be the output of below Python code?

```
str1="poWer"
```

```
str1.upper()
```

```
print(str1)
```

- A. POWER
- B. Power
- C. power
- D. poWer

129. What will the below Python code will return?

```
If str1="save paper,save plants"
```

```
str1.find("save")
```

- A. It returns the first index position of the first occurrence of "save" in the given string str1.
- B. It returns the last index position of the last occurrence of "save" in the given string str1.
- C. It returns the last index position of the first occurrence of "save" in the given string str1.
- D. It returns the first index position of the first occurrence of "save" in the given string str1.

130. What will following Python code return?

```
str1="Stack of books"
```

```
print(len(str1))
```

- A. 13
- B. 14
- C. 15

D. 16

131. What will be the output of the following Python statement?

```
1. >>>"a"+"bc"
```

- a) a
- b) bc
- c) bca
- d) abc

132. What will be the output of the following Python statement?

```
1. >>>"abcd"[2:]
```

- a) a
- b) ab
- c) cd
- d) dc

133. What will be the output of the following Python code?

```
1. >>> str1 = 'hello'  
2. >>> str2 = ','  
3. >>> str3 = 'world'  
4. >>> str1[-1:]
```

- a) olleh
- b) hello
- c) h
- d) o

134. What arithmetic operators cannot be used with strings?

- a) +
- b) \*
- c) -
- d) All of the mentioned

135. What will be the output of the following Python code?

```
1. >>>str1="helloworld"  
2. >>>str1[::-1]
```

- a) dlrowolleh
- b) hello
- c) world
- d) helloworld

136. What will be the output of the following Python code?

```
1. >>>example = "snow world"
```

2. `>>>example[3] = 's'`  
3. `>>>print example`

- a) snow
- b) snow world
- c) Error
- d) snos world

137. Which of the following functions is a built-in function in python?

- a) seed()
- b) sqrt()
- c) factorial()
- d) print()

138. What will be the output of the following Python expression?

```
round(4.576)
```

- a) 4.5
- b) 5
- c) 4
- d) 4.6

139. The function `pow(x,y,z)` is evaluated as:

- a)  $(x**y)**z$
- b)  $(x**y) / z$
- c)  $(x**y) \% z$
- d)  $(x**y)*z$

140. What will be the output of the following Python function?

```
all([2,4,0,6])
```

- a) Error
- b) True
- c) False
- d) 0

141. What will be the output of the following Python expression?

```
round(4.5676,2)?
```

- a) 4.5
- b) 4.6
- c) 4.57
- d) 4.56

142. Which is the most appropriate definition for recursion?

- a) A function that calls itself

- b) A function execution instance that calls another execution instance of the same function
- c) A class method that calls another class method
- d) An in-built method that is automatically called

143. Only problems that are recursively defined can be solved using recursion.

- a) True
- b) False
- a) cant solved
- b) none of the above

144. Which of these is false about recursion?

- a) Recursive function can be replaced by a non-recursive function
- b) Recursive functions usually take more memory space than non-recursive function
- c) Recursive functions run faster than non-recursive function
- d) Recursion makes programs easier to understand

145. What is tail recursion?

- a) A recursive function that has two base cases
- b) A function where the recursive functions leads to an infinite loop
- c) A recursive function where the function doesn't return anything and just prints the values
- d) A function where the recursive call is the last thing executed by the function

146. Which of the following statements is false about recursion?

- a) Every recursive function must have a base case
- b) Infinite recursion can occur if the base case isn't properly mentioned
- c) A recursive function makes the code easier to understand
- d) Every recursive function must have a return value

147. Which of the following is the use of function in python?

- a) Functions are reusable pieces of programs
- b) Functions don't provide better modularity for your application
- c) you can't also create your own functions
- d) All of the mentioned

148. What is a variable defined outside a function referred to as?

- a) A static variable
- b) A global variable
- c) A local variable
- d) An automatic variable

149. What is a variable defined inside a function referred to as?

- a) A global variable
- b) A volatile variable
- c) A local variable
- d) An automatic variable

150. If a function doesn't have a return statement, which of the following does the function return?

- a) int
- b) null
- c) None
- d) An exception is thrown without the return statement

151. Suppose there is a list such that: `l=[2,3,4]`. If we want to print this list in reverse order, which of the following methods should be used?

- a) `reverse(l)`
- b) `list(reverse(l))`
- c) `reversed(l)`
- d) `list(reversed(l))`

152. Which of the following functions will not result in an error when no arguments are passed to it?

- a) `min()`
- b) `divmod()`
- c) `all()`
- d) `float()`

153. Which are the advantages of functions in python?

- a) Reducing duplication of code
- b) Decomposing complex problems into simpler pieces
- c) Improving clarity of the code
- d) All of the mentioned

154. What are the two main types of functions?

- a) Custom function
- b) Built-in function & User defined function
- c) User function
- d) System function

155. Where is function defined?

- a) Module
- b) Class
- c) Another function
- d) All of the mentioned