

- Q.14- What is the value of the expression 10 or 0?
 a. True b. False
 c. 0 d. None of these
- Q.15- What will be the value of the following expression?
 not (1 == 1 and 0 != 1)?
 a. True b. False
 c. 0 d. None of these
- Q.16- What is the value of the expression? >>>bool(8) and bool(0)
 a. 8 b. True
 c. False d. None of these
- Q.17- median() function is stored in which python module?
 a. random b. statistics
 c. math d. none of these
- Q.18- What will be output of the following python code?
 a = 5 - 4 - 3
 b = 3 ** 2 ** 3
 print(a, end = "")
 print(b)
 a. -2 * 6561 b. -2 * 729
 c. -2 * 18 d. none of these
- Q.19- What will be the output of the following?
 print(True or False and not (False))
 a. False b. True
 c. not d. None of these
- Q.20- The _____ data type allows only True/False values .
 a. integer b. boolean
 c. float d. none of these
- Q.21- What is the output of the following?
 for i in range(20, 1, -2):
 if i >= 10:
 print(i)
 a. 20 18 16 14 12
 b. 12 14 16 18 20
 c. 2 4 6 8 10
 d. None of these
- Q.22- What is the output of the following?
 for i in range(65, 70, 2):
 print(chr(i), end = '#')
 a. 65 # 67 # 69 #
 b. A # B # C #
 c. A # C # E #
 d. None of these
- Q.23- What is the output of the following?
 a = 0
 for i in range(4,8):
 if i%2 == 0:
- a = a + 1
 print(a)
 a. 4 5 6 7 b. 12
 c. 10 d. None of these
- Q.24- Function range(3) is equivalent to _____ .
 a. range(0, 3) b. range(1, 3)
 c. range(3, 0) d. None of these
- Q.25- Which of the following is not a valid looping statement in python?
 a. for b. if-else
 c. while d. None of these
- Q.26- Which of the following is an entry controlled loop in python?
 a. do-while b. while
 c. if-else d. None of these
- Q.27- The break and continue statements, together are called _____ statements.
 a. jump b. loop
 c. nest d. none of these
- Q.28- How many times is the word 'Computer' printed in the following statement.
 s = "Computer Science"
 for ch in s[3 : 8]:
 print('Computer')
 a. 11 times b. 5 times
 c. 3 times d. 8 times
- Q.29- A loop may contain another loop in it's body, This form of loop is called _____ loop.
 a. continue b. double
 c. nested d. none of these
- Q.30- What will be the output of the following python code?
 x = "abcba"
 j = -1
 for i in range(len(x)//2):
 print(x[i], "#", x[j])
 j = j - 1
 a. a # a b. a # b
 c. a # b d. none of these
- Q.31- What is the index number of the last character of a string?
 a. 0 b. 1
 c. 100 d. None of these
- Q.32- This string function returns a copy of the string with it's first character capitalized.
 a. upper() b. title()
 c. lower() d. none of these

Q.33- Which of the following is/are illegal Python string operation?

- a. 'abc'+ 'abc'
- b. 'abc' * 3
- c. 'abc' + 3
- d. None of these

Q.34- Which of the following function will return a list containing all the words of the given string?

- a. split()
- b. index()
- c. count()
- d. None of these

Q.35- What would the following expression return when executed in Python shell?

```
>>> "Hello World".find("Wor",1,6)
```

- a. True
- b. 6
- c. -1
- d. None of these

Consider the following code and answer the questions from question (36 to 40):

```
inputstr = input("Give me a string:")
bigint = 0
littleint = 0
otherint = 0
forele in inputstr:
ifele>= 'a' and ele<= 'm': #Line1
    littleint = littleint+1
elif ele>='m' and ele<='z':
    bigint = bigint+1
else:
    otherint = otherint+1
print(bigint) #Line2
print(littleint) #Line3
print(otherint) #Line4
print(inputstr.isdigit()) #Line5
```

Q.36- Given the value of inputstr "abcd" what output is produced by line 2?

- a. 0
- b. 1
- c. 4
- d. None of these

Q.37- Given the input "Hi Mom" what output is produced by line 3?

- a. 0
- b. 2
- c. 3
- d. None of these

Q.38- Given the input "Hi Mom" what output is produced by line 4?

- a. 0
- b. 2
- c. 3
- d. None of these

Q.39- Given the input "1 + 2 = 3" what output is produced by line 5?

- a. True
- b. False
- c. -1
- d. None of these

Q.40- Given the input "1 + 2 = 3" what output is produced by line 2?

- a. 0
- b. 3
- c. 5
- d. None of these

Q.41- What is the full form of CPU?

- a. Computer Processing Unit
- b. Computer Principle Unit
- c. Central Processing Unit
- d. None of these

Q.42- Which of the following is not a characteristic of a computer?

- a. Versatility
- b. Accuracy
- c. I.Q.
- d. None of these

Q.43- Which of the following is the smallest unit of data in a computer?

- a. Bit
- b. KB
- c. Byte
- d. None of these

Q.44- Which of the following is not a type of computer code?

- a. EDIC
- b. ASCII
- c. BCD
- d. None of these

Q.45- Which of the following is designed to control the operations of a computer?

- a. User
- b. Application Software
- c. System Software
- d. None of these

Q.46- Which unit is responsible for converting the data received from the user into a computer understandable format?

- a. Memory Unit
- b. Arithmetic & Logic Unit
- c. Input Unit
- d. None of these

Q.47- The only language which the computer understands is _____.

- a. Assembly Language
- b. Binary Language
- c. BASIC
- d. None of these

Q.48- 1 yottabyte = _____

- a. 1024 TB
- b. 1024 EB
- c. 1024 ZB
- d. None of these

Q.49- _____ is the raw material used as input and _____ is the processed data obtained as output of data processing.

- a. Data, Instructions
- b. Instructions, Program
- c. Data, Program
- d. None of these

Q.50- A computer program that translates one statement of program instructions at a time into machine language is called _____.

- a. CPU
- b. Interpreter
- c. Compiler
- d. Simulator

- Q.51- How many digits are there in binary number system?
 a. One b. Two
 c. Three d. None of these
- Q.52- Decimal number is repeatedly divided by _____ to obtain its equivalent hexadecimal number.
 a. 2 b. 10
 c. 8 d. None of these
- Q.53- In hexadecimal system, each alphanumeric digit is represented as a group of _____ binary digits.
 a. 3 b. 4
 c. 2 d. None of these
- Q.54- Octal equivalent of decimal number 122 is _____.
 a. 172 b. 173
 c. 174 d. None of these
- Q.55- Which is the Most Significant Bit(MSB) in 010101?
 a. 0 b. 1
 c. Both (a) & (b) d. None of these
- Q.56- Equivalent binary number of decimal number 0.25 is _____.
 a. 0.11 b. 0.00
 c. 0.01 d. 1.00
- Q.57- To convert binary number 10101100 to octal number we will make 3 bit groups from _____.
 a. Right to left b. Left to right
 c. Either way d. None of these
- Q.58- Decimal number equivalent to binary number 1110101 is _____.
 a. 117 b. 165
 c. 75 d. 175
- Q.59- Binary representation of the hexadecimal number 98E is _____.
 a. 100110001111
 b. 100110001110
 c. 100110101110
 d. None of these
- Q.60- Octal representation of the hexadecimal number A7B is _____.
 a. 5175 b. 5174
 c. 5173 d. None of these
- Q.61- According to Boolean law : $A + 1 = ?$
 a. 1 b. A
 c. 0 d. None of these
- Q.62- $(A')' = ?$
 a. 1 b. 0
 c. A d. None of these
- Q.63- De Morgan's theorem states that _____.
 a. $(A.B)' = A'+B'$
 b. $(A+B)' = A'.B'$
 c. Both (a) and (b)
 d. None of these
- Q.64- Electronic circuits that operate on one or more input signals to produce standard output _____.
 a. Logic signals
 b. Logic gates
 c. Series Circuits
 d. None of these
- Q.65- A _____ gate gives the output as 1 only if all the input signals are 1.
 a. AND b. OR
 c. NAND d. None of these
- Q.66- The gate which is used to reverse the output obtained is _____.
 a. NOR b. NOT
 c. NAND d. None of these
- Q.67- The universal gate that can be used to implement any Boolean expression is _____.
 a. NOR b. EXOR
 c. OR d. None of these
- Q.68- How many AND gates are required to realize the following expression $Y = AB + BC$.
 a. 4 b. 2
 c. 1 d. None of these
- Q.69- What logic function is produced by adding an inverter to the output of an AND gate?
 a. NAND b. NOR
 c. XOR d. None of these
- Q.70- Which type of logic is following table showing?
- | A | B | Output |
|---|---|--------|
| 0 | 0 | 0 |
| 0 | 1 | 1 |
| 1 | 0 | 1 |
| 1 | 1 | 0 |
- a. AND b. OR
 c. EXOR d. None of these
- Q.71- The operation represented by a parallelogram in flowchart is _____.
 a. Input/Output
 b. Assignment
 c. Comparison
 d. None of these

- Q.72- Part of algorithm which is **repeated** for the fixed number of times is classified as ____ .
- Iteration
 - Selection
 - Sequence
 - None of these
- Q.73- A ____ is a directed graph that describes the flow of execution control of the program.
- Flowchart
 - Algorithm
 - Pseudocode
 - None of these
- Q.74- An algorithm is a ____ set of precise instructions for performing computation.
- Infinite
 - Finite
 - Constant
 - None of these
- Q.75- Which of the following is incorrect? Algorithms can be represented as
- Pseudo codes
 - Syntax
 - Programs
 - None of these
- Q.76- Following is the truth table of a three input logic gate. What values to be filled in place of ?1? and ???
- | A | B | C | Output |
|-----|-----|---|--------|
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 1 |
| 0 | 1 | 0 | 1 |
| 0 | ?1? | 1 | 0 |
| 1 | 0 | 0 | 0 |
| ??? | 0 | 1 | 1 |
| 1 | 1 | 0 | 1 |
| 1 | 1 | 1 | 0 |
- 1 and 1
 - 0 and 1
 - 1 and 0
 - None of these
- Q.77- Out of the following which property algorithms does not have?
- Input
 - Finiteness
 - Constancy
 - None of these
- Q.78- Keep the statement language ____ while writing a pseudo code.
- Dependent
 - Independent
 - Case Sensitive
 - None of these
- Q.79- In problem solving life cycle which is endless phase?
- Design
 - Coding
 - Maintenance
 - None of these
- Q.80- Which of the following helps in updating of software?
- Documentation
 - Flowchart
 - Both (a) and (b)
 - None of these
- Q.81- List can contain values of these types :
- integers
 - floats
 - lists
 - tuples
- Q.82- Which of the following will create an empty list?
- L = [1]
 - L = list(0)
 - L = list()
 - L = List(empty)
- Q.83- Which of the following will return the last element of a list L with 5 elements ?
- L[5]
 - L[4]
 - L[-2]
 - L[6]
- Q.84- If L = [1, 2] then L * 2 will yield
- [1, 2] * 2
 - [1, 2, 2]
 - [1, 1, 2, 2]
 - [1, 2, 1, 2]
- Q.85- If L1 = [1, 3, 5] and L2 = [2, 4, 6] then L1 + L2 will yield
- [1, 2, 3, 4, 5, 6]
 - [1, 3, 5, 2, 4, 6]
 - [3, 7, 11]
 - [1, 3, 5, [2, 4, 6]]
- Q.86- Given a list L = [10, 20, 30, 40, 50, 60, 70], what would L[1:4] return?
- [10, 20, 30, 40]
 - [20, 30, 40, 50]
 - [20, 30, 40]
 - [30, 40, 50]
- Q.87- Given a list L = [10, 20, 30, 40, 50, 60, 70], what would L[2 : -2] return?
- [10, 20, 30, 40]
 - [20, 30, 40, 50]
 - [20, 30, 40]
 - [30, 40, 50]
- Q.88- Given a list L = [10, 20, 30, 40, 50, 60, 70], what would L[-4 - : 1] return?
- [20, 30, 40]
 - [30, 40, 50]
 - [40, 50, 60]
 - [50, 60, 70]
- Q.89- Given a list L = [10, 20, 30, 40, 50, 60, 70], what would L[-3 : 99] return?
- [20, 30, 40]
 - [30, 40, 50]
 - [40, 50, 60]
 - [50, 60, 70]
- Q.90- To find the last element of list namely 'smiles' in Python, ____ will be used.
- smiles[0]
 - smiles[-1]
 - smiles[lpos]
 - smiles[:-1]

