



- Q.10- Which of the following stores the data permanently?  
 a) Hard disk  
 b) Compact disk  
 c) Both (a) and (b)  
 d) None of these
- Q.11- What is the full form of IPO?  
 a) Input Print Output  
 b) Input Process Output  
 c) Input Program Output  
 d) None of these
- Q.12- Identify the input device(s).  
 a) Speaker            b) Printer  
 c) Keyboard          d) Scanner
- Q.13- Which of the following are sub units of CPU?  
 a) Control Unit  
 b) ALU  
 c) Both (a) and (b)  
 d) None of these
- Q.14- Storage of 1KB means the following number of bytes :  
 a) 1000                b) 1240  
 c) 1024                d) None of these
- Q.15- What is the base of octal number system?  
 a) 2                    b) 8  
 c) 10                   d) 16
- Q.16- Convert  $(10010)_2$  into decimal number system.  
 a) 28                    b) 18  
 c) 20                    d) None of these
- Q.17- Convert  $(245)_8$  into Binary number system.  
 a) 1010 0101        b) 1011 0101  
 c) 1010 1101        d) None of these
- Q.18- Which number system uses numbers and letters as symbols?  
 a) Binary              b) Octal  
 c) Decimal             d) Hexadecimal
- Q.19- Convert  $(2C9)_{16}$  into decimal number system.  
 a) 713                  b) 317  
 c) 824                  d) None of these
- Q.20- Convert  $(300)_{10}$  into Hexadecimal number system.  
 a) 12C                  b) C21  
 c) 1221                d) None of these
- Q.21- Convert  $(1011.1101)_2$  into Hexadecimal number system.  
 a)  $(D.B)_{16}$             b)  $(B.D)_{16}$   
 c)  $(11.13)_{16}$          d) None of these
- Q.22- After counting 0, 1, 10, 11, the next binary number is :  
 a) 12                    b) 100  
 c) 101                  d) None of these
- Q.23- Hexadecimal letters A through F are used for decimal equivalent values from :  
 a) 1 through 6  
 b) 9 through 14  
 c) 10 through 15  
 d) 11 through 17
- Q.24- Convert  $(10011011.1110)_2$  into Hexadecimal number system.  
 a) 9B.E                b) EB.9  
 c) 233.7                d) None of these
- Q.25- What is the full form of LSB?  
 a) Local Significant Base  
 b) Last Sign Base  
 c) Least Significant Bit  
 d) None of these
- Q.26- Which of the following is not a valid encoding scheme for characters?  
 a) ASCII                b) ISCII  
 c) Unicode              d) ESCII
- Q.27- ASCII code is a \_\_\_\_\_ bit code.  
 a) 4                      b) 7  
 c) 10                     d) None of these
- Q.28- Each octal digit is replaced with \_\_\_\_\_ bits in octal to binary conversion.  
 a) 2                      b) 3  
 c) 4                      d) None of these
- Q.29- The value of 80 is \_\_\_\_\_ .  
 a) 0                      b) 1  
 c) 8                      d) None of these
- Q.30-  $(15.625)_{10} = (?)_8$   
 a) 19.5                 b) 17.2  
 c) 19.2                 d) None of these
- Q.31- Which of the following is not a logical operator?  
 a) and                    b) or  
 c) not                    d) if
- Q.32- Identify the law used for the given relation.  
 $A + B = B + A$   
 a) Associative law  
 b) Commutative law  
 c) Absorption law  
 d) Distributive law

- Q.33- Identify the law used for the given relation.  
 $A, (A + B) = A$   
 a) Associative law  
 b) Commutative law  
 c) Absorption law  
 d) Distributive law
- Q.34- The output of a 2-input OR gate is 0 only when it's :  
 a) both inputs are 0  
 b) both inputs are 1  
 c) both (a) and (b)  
 d) None of these
- Q.35- DeMorgan's theorem states that  
 a)  $(A.B)' = A' + B'$   
 b)  $(A + B)' = A' * B'$   
 c)  $A' + B' = A'B'$   
 d) None of these
- Q.36- Which of the following is called Inverter?  
 a) AND                      b) OR  
 c) NOT                      d) None of these
- Q.37- Which of the following is UNIVERSAL gate?  
 a) AND                      b) OR  
 c) NOT                      d) None of these
- Q.38- Which of the following is Dual of  $X + 0 = X$ ?  
 a)  $X.1 = X$               b)  $X'.1 = X$   
 c)  $X + 1 = 1$               d) None of these
- Q.39- Simplified form of  $(A + B) + (A'.B')$  is:  
 a) 0                          b) 1  
 c) A+B                      d) None of these
- Q.40- Simplified form of  $(X + Y). X' . Y'$  is :  
 a) 0                          b) 1  
 c)  $X'+Y'$                   d) None of these
- Q.41- Which gate takes only one input?  
 a) AND                      b) OR  
 c) NOT                      d) None of these
- Q.42- If the result of a logical expression is always True. It is known as \_\_\_\_\_.  
 a) Fallacy  
 b) Tautology  
 c) Precedence  
 d) None of These
- Q.43- What is the Truth Table?  
 a) It is a table representing what output will one get for a given input.  
 b) It is a table representing what input and output will be given by a given boolean operator.  
 c) both (a) and (b)  
 d) None of these
- Q.44- Which operator has the highest precedence in a Boolean expression?  
 a) AND                      b) OR  
 c) NOT                      d) None of these
- Q.45-  $X + X' = ?$   
 a) X                          b)  $X'$   
 c) 1                          d) 0
- Q.46- \_\_\_\_\_ symbol used when the flow chart is starting or ending.  
 a) Connector/ Arrow  
 b) Terminal Box  
 c) Input / Output  
 d) Process
- Q.47- A flowchart is a \_\_\_\_\_ representation of an algorithm using various symbols, shapes, and arrows to explain a process or program.  
 a) Graphical  
 b) Visual  
 c) Both (a) and (b)  
 d) None of these
- Q.48- \_\_\_\_\_ symbol is used to connect relationships between the shapes.  
 a) Process  
 b) Terminal Box  
 c) Input/ Output  
 d) None of these
- Q.49- In a Flow-chart the following box denotes?  
 a) Connector  
 b) Terminal Box  
 c) Input/ Output  
 d) None of these
- Q.50- \_\_\_\_\_ is a procedure or step by step process for solving a problem.  
 a) Flow-chart  
 b) Algorithm  
 c) Pseudocode  
 d) None of these
- Q.51- Which of the following is an invalid identifier?  
 a) BREAK                    b) 8\_num  
 c) \_90                        d) None of these
- Q.52- Python programs/scripts are stored in files with \_\_\_\_\_ extension.  
 a) .pt                        b) .py  
 c) .pyt                      d) None of these
- Q.53- Data items having fixed values are called \_\_\_\_\_.  
 a) Identifiers  
 b) Punctuators  
 c) Literals  
 d) Keywords



- Q.73- Which of the following is not a Python legal string operation?  
 a) "Computer"+"Science"  
 b) "Computer"/8  
 c) "Computer"\*8  
 d) None of these
- Q.74- How many times the word "Python" will be printed after execution of following code?  
 S = "I Love Python"  
 for ch in S[3:8]:  
   print("Python")  
 a) 11 times           b) 8 times  
 c) 3 times            d) 5 times
- Q.75- It converts uppercase letter to lowercase and lowercase letters to uppercase of the given string?  
 a) reverse()        b) swapcase()  
 c) strip()          d) alternate()
- Q.76- What will be the output of the following python code?  
 print("ComputerScience".split("er",2))  
 a) ['Computer', 'Science']  
 b) ['Comput', 'Science']  
 c) ['Comput', 'erScience']  
 d) None of these
- Q.77- Which operator replicates the string?  
 a) +                b) //  
 c) rep              d) None of these
- Q.78- Which function returns the ASCII/Unicode(Ordinal) of the character?  
 a) ord()            b) ASCII()  
 c) uni()            d) None of these
- Q.79- Which function removes all leading and trailing spaces from a string?  
 a) lstrip()         b) rstrip()  
 c) strip()          d) All of these
- Q.80- Which is the correct python code to display the last four characters of string s?  
 s = "Information Technology"  
 a) str[-4:]         b) str[4:]  
 c) str[4]            d) None of these
- Q.81- Identify the output of the following Python statements.  
 L = [10, 15, 20, 25, 30]  
 L.insert(3, 4)  
 L.insert(2, 3)  
 print(L[-5])  
 a) 10                b) 3  
 c) 2                 d) None of these
- Q.82- What is the output when we execute list("hello")?  
 a) ['h', 'e', 'l', 'l', 'o']  
 b) ['hello']  
 c) Error  
 d) None of these
- Q.83- What is the output when following code is executed?  
 >>>names = ['Amir', 'Bear', 'Charlton', 'Daman']  
 >>>print(names[-1][-1])  
 a) A                 b) n  
 c) Error             d) None of these
- Q.84- Suppose list1 is [1, 3, 2], what is list1 \* 2 ?  
 a) [2, 6, 4]  
 b) [1, 3, 2, 1, 3]  
 c) [1, 3, 2, 1, 3, 2]  
 d) [1, 3, 2, 3, 2, 1]
- Q.85- Suppose list1 is [3, 4, 5, 20, 5], what is list1.index(5) ?  
 a) 0                 b) 1  
 c) 3                 d) 2
- Q.86- Which of the following statements is correct about list?  
 a) List can contain values of mixed data types  
 b) List can contain duplicate values  
 c) A list with no elements is called an empty list  
 d) All of these
- Q.86- Which of the following function will return the index of the first occurrence of the Specified element in a list?  
 a) sort()  
 b) value()  
 c) index()  
 d) None of these
- Q.87- Given a nested list structure  
 L=["Computer", "is", ["An", "Electronic"], "Device"]  
 Which of the following will access the string "Electronic"?  
 a) L[2]  
 b) L[2][1]  
 c) L[2][1]  
 d) None of these

- Q.88- What will be displayed, if the following statements are executed?  
`a = [1, 2, 3, None, (,)]`  
`print(len(a))`  
 a) 3  
 b) 4  
 c) Error  
 d) None of these
- Q.89- The sequential accessing of the elements in a list is called :  
 a) List indexing  
 b) List traversal  
 c) List slicing  
 d) None of these
- Q.90- The \_\_\_\_\_ function returns the deleted element of the list.  
 a) `sort()`  
 b) `remove()`  
 c) `pop()`  
 d) None of these
- Q.91- Which of the following is an immutable data type in python?  
 a) list                      b) tuple  
 c) dictionary              d) None of these
- Q.92- if `tup = (20, 30, 40, 50)`, which of the following is incorrect?  
 a) `print(tup[3])`  
 b) `tup[2]=56`  
 c) `print(max(tup))`  
 d) None of these
- Q.93- What will be the output?  
`>>>t1 = (1, 2, 3, 4)`  
`>>>t2 = (1, 2, 4, 3)`  
`>>>t1 < t2`  
 a) True  
 b) False  
 c) Error  
 d) None of these
- Q.94- Consider the declaration `lst = 1, 'Python', '3.14'`. What will be the data type of `lst`?  
 a) tuple  
 b) list  
 c) int  
 d) None of these
- Q.95- What is the index of the last element of a tuple?  
 a) 0  
 b) -1  
 c) 100  
 d) None of these

*Krishnav is looking for his dream job but has some restrictions. He has no restrictions to work in Mumbai. He loves Delhi and would take a job there if he is paid over ₹40000 a month. He is not willing to work in Chennai and demands at least ₹100000 to work there. In any another location he is willing to work for at least ₹60000 a month. The following code shows his basic strategy for evaluating a job offer.*

**Code**

```

pay = _____
location = _____
if (location == "Mumbai"):
    print ("I'll take it!")      #Statement 1
elif (location == "Chennai"):
    if (pay < 100000):
        print ("No way")      #Statement 2
    else :
        print("I am willing!") #Statement 3
elif (location == "Delhi") and (pay > 40000):
    print("I am happy to join") #Statement 4
elif (pay > 60000):
    print("I accept the offer") #Statement 5
else:
    print("No thanks, I can find something better")
                                                    #Statement 6
  
```

*On the basis of the above code, choose the right statement from Q. 96 to Q. 100 which will be executed when different inputs for pay and location are given.*

- Q.96- Input: location = "Chennai",  
 pay = 50000  
 a) Statement 1      b) Statement 2  
 c) Statement 3      d) Statement 4
- Q.97- Input: location = "Surat", pay = 50000  
 a) Statement 2      b) Statement 4  
 c) Statement 5      d) Statement 6
- Q.98- Input: location = "Mumbai",  
 pay = 35000  
 a) Statement 1      b) Statement 2  
 c) Statement 4      d) Statement 6
- Q.99- Input: location = "Delhi", pay = 50000  
 a) Statement 3      b) Statement 4  
 c) Statement 5      d) Statement 6
- Q.100- Input : location = "Lucknow",  
 pay = 65000  
 a) Statement 2      b) Statement 3  
 c) Statement 4      d) Statement 5

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