

CBSE Paper 2023

1. State True or False. 1
"Identifiers are names used to identify a variable, function in a program".

2. Which of the following is a valid keyword in Python ? 1
(a) false (b) return
(c) non_local (d) none

3. Given the following Tuple 1
Tup= (10, 20, 30, 50)
Which of the following statements will result in an error ?
(a) print(Tup[0]) (b) Tup.insert (2,3)
(c) print(Tup[1:2]) (d) print(len(Tup))

4. Consider the given expression : 1
5<10 and 12>7 or not 7>4
Which of the following will be the correct output, if the given expression is evaluated ?
(a) True (b) False
(c) NONE (d) NULL

8. Which of the following operators will return either True or False ? 1
(a) += (b) !=
(c) = (d) *=

9. Which of the following statement(s) would give an error after executing the following code ? 1
Stud={"Murugan":100, "Mithu":95} # Statement 1
print (Stud[95]) # Statement 2
Stud ["Murugan"]=99 # Statement 3
print(Stud.pop()) # Statement 4
print(Stud) # Statement 5
(a) Statement 2 (b) Statement 3
(c) Statement 4 (d) Statements 2 and 4

14. What will the following expression be evaluated to in Python ? 1
print(4+3*5/3-5%2)
(a) 8.5 (b) 8.0
(c) 10.2 (d) 10.0

Python Theory

17. **Assertion (A)** : To use a function from a particular module, we need to import the module. 1
Reason (R) : import statement can be written anywhere in the program, before using a function from that module.
18. **Assertion (A)** : A stack is a LIFO structure. 1
Reason (R) : Any new element pushed into the stack always gets positioned at the index after the last existing element in the stack.

CBSE Paper 2021

1. Which of the following options is/are **not** Python Keywords ? 1
(A) `False`
(B) `Math`
(C) `WHILE`
(D) `break`
2. Given the dictionary `D={'Rno': 1, 'Name':'Suraj'}` , write the output of `print(D['Name'])`. 1
3. Identify the statement(s) from the following options which will raise `TypeError` exception(s) : 1
(A) `print('5' * 3)`
(B) `print(5 * 3)`
(C) `print('5' + 3)`
(D) `print('5' + '3')`

Python Theory

4. Identify the valid relational operator(s) in Python from the following : 1
- (A) =
 - (B) <
 - (C) <>
 - (D) not
5. For a string S declared as `S = 'PYTHON'`, which of the following is incorrect ? 1
- (A) `N=len(S)`
 - (B) `T = S`
 - (C) `'T' in S`
 - (D) `S[0] = 'M'`
6. Write a single line statement in Python to assign the values 'BLUE', 'GREEN', 'RED' to a tuple named `Colours`. 1
7. A List is declared as `L = ['ONE', 'TWO', 'THREE']`
What will be the output of the statement ? 1
- ```
print(max(L))
```
8. Write the name of the built-in function/method of the **math module** which when executed upon 5.8 as parameter, would return the nearest smaller integer 5. 1
27. (a) Explain the use of positional parameters in a Python function with the help of a suitable example. 2

**OR**

- (b) Explain the use of a default parameter in a Python function with the help of a suitable example. 2
28. Rewrite the following code in Python after removing all syntax error(s) : 2
- Underline each correction done in the code.

```
Runs = (10, 5, 0, 2, 4, 3)
for I in Runs:
 if I=0:
 print(Maiden Over)
 else
 print(Not Maiden)
```

1. (a) Which of the following is *not* a valid variable name in Python ?  
Justify reason for it not being a valid name. 1
- (i) `5Radius`
  - (ii) `Radius_`
  - (iii) `_Radius`
  - (iv) `Radius`
- (b) Which of the following are keywords in Python ? 1
- (i) `break`
  - (ii) `check`
  - (iii) `range`
  - (iv) `while`
- (c) Name the Python Library modules which need to be imported to invoke the following functions : 1
- (i) `cos()`
  - (ii) `randint()`
- (d) Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. 2
- ```
input('Enter a word',W)
if W = 'Hello'
    print('Ok')
else:
    print('Not Ok')
```
2. (a) Write the names of the immutable data objects from the following : 1
- (i) `List`
 - (ii) `Tuple`
 - (iii) `String`
 - (iv) `Dictionary`

(b) Write a Python statement to declare a Dictionary named `ClassRoll` with Keys as 1, 2, 3 and corresponding values as `'Reena'`, `'Rakesh'`, `'Zareen'` respectively. 1

(c) Which of the options out of (i) to (iv) is the correct data type for the variable `Vowels` as defined in the following Python statement? 1

```
Vowels = ('A', 'E', 'I', 'O', 'U')
```

- (i) `List`
- (ii) `Dictionary`
- (iii) `Tuple`
- (iv) `Array`

16. Which of the following is/are immutable object type(s) in Python ? 1
- (A) List
 - (B) String
 - (C) Tuple
 - (D) Dictionary
17. What shall be the output for the execution of the following Python Code ? 1
- ```
Cities = ['Delhi', 'Mumbai']
Cities[0], Cities[1] = Cities[1], Cities[0]
print(Cities)
```

1. (a) Write the names of any four data types available in Python. 2
- (b) Name the Python Library modules which need to be imported to invoke the following functions : 1
- (i) `sqrt()`
- (ii) `start()`
- (c) Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 2
- ```
250 = Number
WHILE Number<=1000:
    if Number=>750:
        print Number
        Number=Number+100
    else
        print Number*2
        Number=Number+50
```
2. (a) Write four features of object oriented programming. 2

1. (a) Differentiate between Syntax Error and Run-Time Error. Also, write a suitable example in Python to illustrate both. 2
- (b) Name the Python Library modules which need to be imported to invoke the following functions : 1
- (i) `sin()`
- (ii) `search()`
- (c) Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. 2
- ```
Val = int(rawinput("Value:"))
Adder = 0

for C in range(1,Val,3)
 Adder+=C
 if C%2=0:
 Print C*10
 Else:
 print C*
print Adder
```
2. (a) What is the advantage of `super()` function in inheritance ? Illustrate the same with the help of an example in Python. 2



## Python Theory

### CBSE Paper 2017

1. (a) Which of the following can be used as valid variable identifier(s) in Python ? **2**
- (i) `total`
  - (ii) `7Salute`
  - (iii) `Que$tion`
  - (iv) `global`
- (b) Name the Python Library modules which need to be imported to invoke the following functions : **1**
- (i) `ceil()`
  - (ii) `randint()`
- (c) Rewrite the following code in Python after removing all syntax error(s). Underline each correction done in the code. **2**
- ```
TEXT="GREAT
DAY"
for T in range[0,7]:
    print TEXT(T)
print T+TEXT
```
2. (a) List four characteristics of Object Oriented Programming. **2**

CBSE Paper 2016

1. (a) Out of the following, find those identifiers, which cannot be used for naming Variable or Functions in a Python program: **2**
- ```
Price*Qty, class, For, do,
4thCol, totally, Row31, _Amount
```
- (b) Name the Python Library modules which need to be imported to invoke the following functions : **1**
- (i) `load()`
  - (ii) `pow()`
- (c) Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. **2**
- ```
for Name in [Amar, Shveta, Parag]
    IF Name[0]='S' :
        print (Name)
```
2. (a) What is the difference between Multiple and Multilevel inheritance ? Give suitable examples to illustrate both. **2**

CBSE Paper 2015

1. (a) How is `_init()` different from `_del()` ? 2
- (b) Name the function/method required to 1
- (i) check if a string contains only uppercase letters
- (ii) gives the total length of the list.
- (c) Rewrite the following code in python after removing all syntax error(s). Underline each correction done in the code. 2

```
def Tot(Number) #Method to find Total
    Sum=0
    for C in Range (1, Number+1):
        Sum+=C
    RETURN Sum
print Tot[3] #Function Calls
print Tot[6]
```

2. (a) Illustrate the concept inheritance with the help of a python code. 2
- (d) What is operator overloading with methods ? Illustrate with the help of an example using a python code. 2