

# National Testing Agency

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| <b>Question Paper Name :</b> | Problem solving Aspects and Python Programming 29th Sep 2020 Shift 2 |
| <b>Subject Name :</b>        | Problem solving Aspects and Python Programming                       |
| <b>Creation Date :</b>       | 2020-09-29 18:34:28                                                  |
| <b>Duration :</b>            | 180                                                                  |
| <b>Number of Questions :</b> | 100                                                                  |
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| <b>Display Marks:</b>        | Yes                                                                  |

## Problem solving Aspects and Python Programming

|                                      |           |
|--------------------------------------|-----------|
| <b>Group Number :</b>                | 1         |
| <b>Group Id :</b>                    | 899514138 |
| <b>Group Maximum Duration :</b>      | 0         |
| <b>Group Minimum Duration :</b>      | 120       |
| <b>Show Attended Group? :</b>        | No        |
| <b>Edit Attended Group? :</b>        | No        |
| <b>Break time :</b>                  | 0         |
| <b>Group Marks :</b>                 | 100       |
| <b>Is this Group for Examiner? :</b> | No        |

## Problem solving Aspects and Python Programming

|                                |           |
|--------------------------------|-----------|
| <b>Section Id :</b>            | 899514188 |
| <b>Section Number :</b>        | 1         |
| <b>Section type :</b>          | Online    |
| <b>Mandatory or Optional :</b> | Mandatory |
| <b>Number of Questions :</b>   | 100       |

|                                       |           |
|---------------------------------------|-----------|
| Number of Questions to be attempted : | 100       |
| Section Marks :                       | 100       |
| Mark As Answered Required? :          | Yes       |
| Sub-Section Number :                  | 1         |
| Sub-Section Id :                      | 899514229 |
| Question Shuffling Allowed :          | Yes       |

**Question Number : 1 Question Id : 89951411750 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

The two kinds of main memory are

1. Primary and secondary
2. Random and sequential
3. ROM and RAM
4. ROM and RAM

**Options :**

- 89951445883. 1
- 89951445884. 2
- 89951445885. 3
- 89951445886. 4

**Question Number : 2 Question Id : 89951411751 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

BIOS stands for

1. Basic Input Output system
2. Binary Input output system
3. Basic Input Off system
4. Basic Operating System

**Options :**

- 89951445887. 1
- 89951445888. 2

89951445889. 3

89951445890. 4

**Question Number : 3 Question Id : 89951411752 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

When a computer is switched on, the booting process performs

1. Integrity Test
2. Power-On Self-Test
3. Correct Functioning Test
4. Reliability Test

**Options :**

89951445891. 1

89951445892. 2

89951445893. 3

89951445894. 4

**Question Number : 4 Question Id : 89951411753 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Modern Computer are very reliable but they are not

1. Fast
2. Powerful
3. Infallible
4. Cheap

**Options :**

89951445895. 1

89951445896. 2

89951445897. 3

89951445898. 4

**Question Number : 5 Question Id : 89951411754 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

----- is the brain of the computer and does the calculation, moving and processing of information

1. Mother Board
2. CPU
3. RAM
4. Hard Drive

**Options :**

89951445899. 1  
89951445900. 2  
89951445901. 3  
89951445902. 4

**Question Number : 6 Question Id : 89951411755 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

The second generation computer was based on

1. Vacuum tubes
2. Silicon Chips
3. Microprocessors
4. Transistors

**Options :**

89951445903. 1  
89951445904. 2  
89951445905. 3  
89951445906. 4

**Question Number : 7 Question Id : 89951411756 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Who invented the difference engine?

1. Allen Turing
2. John Atanasoff
3. Clifford Berry
4. Charles Babbage

**Options :**

89951445907. 1  
89951445908. 2  
89951445909. 3  
89951445910. 4

**Question Number : 8 Question Id : 89951411757 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What characteristic of read-only memory (ROM) makes it useful?

1. ROM information can be easily update
2. Data in ROM is non-volatile, that is, it remains there even without electrical power.
3. ROM provides very large amounts of inexpensive data storage.
4. ROM chips are easily swapped between different brands of computers.

**Options :**

89951445911. 1  
89951445912. 2  
89951445913. 3  
89951445914. 4

**Question Number : 9 Question Id : 89951411758 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a repetitive structure?

1. for
2. elif
3. while
4. do-while

**Options :**

89951445915. 1  
89951445916. 2  
89951445917. 3  
89951445918. 4

**Question Number : 10 Question Id : 89951411759 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The memory stored in the capacitor in a DRAM circuit has to be constantly refreshed, and this happens several times in a second. Why does it have to refresh so many times?

1. The capacitor leaks
2. The transistor leaks
3. This keeps the memory from getting too full
4. This prevents it from short circuiting

**Options :**

89951445919. 1  
89951445920. 2  
89951445921. 3  
89951445922. 4

**Question Number : 11 Question Id : 89951411760 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The word 'computer' usually refers to the central processor unit plus

1. external memory
2. internal memory
3. input devices
4. output devices

**Options :**

- 89951445923. 1
- 89951445924. 2
- 89951445925. 3
- 89951445926. 4

**Question Number : 12 Question Id : 89951411761 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What are the two basic types of memory that your computer uses?

1. RAM/ROM
2. RW/RAM
3. PROM/ROM
4. EPROM/EEPROM

**Options :**

- 89951445927. 1
- 89951445928. 2
- 89951445929. 3
- 89951445930. 4

**Question Number : 13 Question Id : 89951411762 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The output on VDU is called

1. Hardcopy
2. Information
3. Softcopy
4. Software

**Options :**

89951445931. 1

89951445932. 2

89951445933. 3

89951445934. 4

**Question Number : 14 Question Id : 89951411763 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What type of devices are mouse, trackball and light pen?

1. Processing devices
2. Pointing devices
3. Both Processing devices and Pointing devices
4. neither Processing devices and Pointing devices

**Options :**

89951445935. 1

89951445936. 2

89951445937. 3

89951445938. 4

**Question Number : 15 Question Id : 89951411764 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**



When an algorithm is written in the form of a programming language, it becomes a

---

1. Flowchart
2. Program
3. Pseudocode
4. Syntax

**Options :**

89951445939. 1  
89951445940. 2  
89951445941. 3  
89951445942. 4

**Question Number : 16 Question Id : 89951411765 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A visual programming development environment based on flowcharts is

1. Algorithm
2. Pseudocode
3. Raptor
4. Flowchart

**Options :**

89951445943. 1  
89951445944. 2  
89951445945. 3  
89951445946. 4

**Question Number : 17 Question Id : 89951411766 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

An object that can be changed after its creation is called as -----in Python

1. Modifiable
2. Mutable
3. Adjustable
4. Adaptable

**Options :**

89951445947. 1  
89951445948. 2  
89951445949. 3  
89951445950. 4

**Question Number : 18 Question Id : 89951411767 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

In the following expression,

$\text{Ans} = x + y$

How many types of tokens are present?

1. 5
2. 3
3. 2
4. 4

**Options :**

89951445951. 1  
89951445952. 2  
89951445953. 3  
89951445954. 4

**Question Number : 19 Question Id : 89951411768 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a valid identifier?

1. beta
2. lambda
3. gamma
4. alpha

**Options :**

89951445955. 1  
89951445956. 2  
89951445957. 3  
89951445958. 4

**Question Number : 20 Question Id : 89951411769 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

```
def square(num):  
    """Function returns square """  
    sq=num*num  
    return sq
```

In the above function definition , the second line is a

1. Comment
2. docstring
3. coding
4. Definition

**Options :**

89951445959. 1  
89951445960. 2  
89951445961. 3  
89951445962. 4

**Question Number : 21 Question Id : 89951411770 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What symbol often indicates the beginning and end of a program or sub-process?

1. Flowline
2. Terminal
3. Process
4. Decision

**Options :**

89951445963. 1  
89951445964. 2  
89951445965. 3  
89951445966. 4

**Question Number : 22 Question Id : 89951411771 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python expression?

`24//6%3, 24//4//2`

1. 1 3
2. 0 3
3. 1 0
4. 3 1

**Options :**

89951445967. 1  
89951445968. 2  
89951445969. 3  
89951445970. 4

**Question Number : 23 Question Id : 89951411772 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What will be the value of X in the following Python expression?

$X = 2 + 9 * ((3 * 12) - 8) / 10$

1. 27
2. 27.0
3. 28.0
4. 27.2

**Options :**

89951445971. 1  
89951445972. 2  
89951445973. 3  
89951445974. 4

**Question Number : 24 Question Id : 89951411773 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

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

1. Exponential
2. Addition
3. Multiplication
4. Parentheses

**Options :**

89951445975. 1  
89951445976. 2  
89951445977. 3  
89951445978. 4

**Question Number : 25 Question Id : 89951411774 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the output?

```
print('{:^30}'.format(" Python Programming"))
```

1. Centre aligned
2. Left aligned
3. Right aligned
4. No alignment is done

**Options :**

- 89951445979. 1
- 89951445980. 2
- 89951445981. 3
- 89951445982. 4

**Question Number : 26 Question Id : 89951411775 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python expression if x=219?

```
print("%5.2f"%x)
```

1. 219.0
2. 219
3. 219 .00
4. 220.0

**Options :**

- 89951445983. 1
- 89951445984. 2
- 89951445985. 3
- 89951445986. 4

**Question Number : 27 Question Id : 89951411776 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the output of the following nested loop

```
for num in range(10, 14):
```

```
    for i in range(2, num):
```

```
        if num%i == 1:
```

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

```
            break
```

1. 10,11,12,13 ,

2. 10,11,12,13

3. 10,11,12,13,14,

4. 10,11,12,13,14

**Options :**

89951445987. 1

89951445988. 2

89951445989. 3

89951445990. 4

**Question Number : 28 Question Id : 89951411777 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is the value of the var after the for loop completes its execution

```
var = 10
```

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

```
    for j in range(2, 10, 1):
```

```
        if var % 2 == 0:
```

```
            continue
```

```
        else:
```

```
            var+1
```

```
print(var)
```

1. 9
2. 10
3. 11
4. 12

**Options :**

89951445991. 1

89951445992. 2

89951445993. 3

89951445994. 4

**Question Number : 29 Question Id : 89951411778 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**



What will be the output of the following Python code?

```
for i in range(10):  
    if i == 5:  
        break  
    else:  
        print(i, end=" ")  
else:  
    print("Here")
```

1. 1 2 3 4
2. 0 1 2 3 4 5
3. 0 1 2 3 4
4. 1 2 3 4 5

**Options :**

89951445995. 1  
89951445996. 2  
89951445997. 3  
89951445998. 4

**Question Number : 30 Question Id : 89951411779 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

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

1. A global variable
2. A volatile variable
3. A local variable
4. An automatic variable

**Options :**

89951445999. 1  
89951446000. 2

89951446001. 3

89951446002. 4

**Question Number : 31 Question Id : 89951411780 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

```
i=0
```

```
def change(i):
```

```
    i=i+1
```

```
    return i
```

```
change(1)
```

```
print(i)
```

1. 0

2. Nothing is displayed

3. 1

4. An exception is thrown

**Options :**

89951446003. 1

89951446004. 2

89951446005. 3

89951446006. 4

**Question Number : 32 Question Id : 89951411781 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

```
a=10
b=20
def change():
    global b
    a=45
    b=56
change()
print(a)
print(b)
```

1. 10  
56
2. 45  
46
3. 10  
20
4. 56  
20

**Options :**

- 89951446007. 1
- 89951446008. 2
- 89951446009. 3
- 89951446010. 4

**Question Number : 33 Question Id : 89951411782 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

```
d = 50
```

```
try:
```

```
    d = d/10
```

```
except ZeroDivisionError:
```

```
    print('Cannot divide by 0 ', end = "")
```

```
finally:
```

```
    print('Success ', end = "")
```

```
else:
```

```
    print('Division successful ', end = "")
```

1. Invalid Syntax
2. Cannot divide by 0 Success
3. Success Division successful
4. Success

**Options :**

89951446011. 1

89951446012. 2

89951446013. 3

89951446014. 4

**Question Number : 34 Question Id : 89951411783 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What happens if we compare '1' == 1?

1. True
2. False
3. a TypeError occurs
4. a ValueError occurs

**Options :**

89951446015. 1

89951446016. 2

89951446017. 3

89951446018. 4

**Question Number : 35 Question Id : 89951411784 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following exception is raised as a result of an error in opening a particular file?

1. ValueError
2. TypeError
3. ImportError
4. IOError

**Options :**

89951446019. 1

89951446020. 2

89951446021. 3

89951446022. 4

**Question Number : 36 Question Id : 89951411785 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of the following statements are true?

1. When you open a file for reading, if the file does not exist, an error occurs
2. When you open a file for writing, if the file does not exist, a new file is created
3. When you open a file for writing, if the file exists, the existing file is overwritten with the new file
4. All of the options

**Options :**

89951446023. 1

89951446024. 2

89951446025. 3

89951446026. 4

**Question Number : 37 Question Id : 89951411786 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

To read two characters from a file object infile, we use

1. `infile.readlines()`
2. `infile.readline()`
3. `infile.read()`
4. `infile.read(2)`

**Options :**

89951446027. 1

89951446028. 2

89951446029. 3

89951446030. 4

**Question Number : 38 Question Id : 89951411787 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is the difference between r+ and w+ modes?

1. no difference
2. In r+ the pointer is initially placed at the beginning of the file and the pointer is at the end for w+
3. In w+ the pointer is initially placed at the beginning of the file and the pointer is at the end for r+
4. depends on the operating system

**Options :**

89951446031. 1

89951446032. 2

89951446033. 3

89951446034. 4

**Question Number : 39 Question Id : 89951411788 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Given the file test.txt, which of the following is the correct way to open the file for reading as a text file?

1. `open('test.txt', 'w')`
2. `open('test.txt', 'wb')`
3. `open(' test.txt', 'rb')`
4. `open(' test.txt')`

**Options :**

89951446035. 1

89951446036. 2

89951446037. 3

89951446038. 4

**Question Number : 40 Question Id : 89951411789 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output for the following code?

```
names = ['Amir', 'Barry', 'Chales', 'Dao']  
print(names[-1][-1])
```

1. A
2. 0
3. Amir
4. Dao

**Options :**

89951446039. 1

89951446040. 2

89951446041. 3

89951446042. 4

**Question Number : 41 Question Id : 89951411790 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Find the output of the following Python snippet.

```
def addItem(listParam):
```

```
    listParam += [1]
```

```
mylist = [1, 2, 3, 4]
```

```
addItem(mylist)
```

```
print(len(mylist))
```

1. 1

2. 4

3. 5

4. 8

**Options :**

89951446043. 1

89951446044. 2

89951446045. 3

89951446046. 4

**Question Number : 42 Question Id : 89951411791 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Suppose list1 is [1, 3, 2],What is list1 \* 2?

1. [2, 6, 4].

2. [1, 3, 2, 1, 3]

3. [1, 3, 2, 1, 3, 2]

4. [1, 3, 2, 3, 2, 1]

**Options :**

89951446047. 1



89951446048. 2

89951446049. 3

89951446050. 4

**Question Number : 43 Question Id : 89951411792 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

If `a=(1,2,3,4)`, `a[1:-1]` is \_\_\_\_\_

1. Error, tuple slicing doesn't exist
2. `[2,3]`
3. `(2,3,4)`
4. `(2,3)`

**Options :**

89951446051. 1

89951446052. 2

89951446053. 3

89951446054. 4

**Question Number : 44 Question Id : 89951411793 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the output of the following piece of code?

```
a=(0,1,2,3,4)
```

```
b=slice(0,2)
```

```
print(a[b])
```

1. Invalid syntax
2. `[0,2]`
3. `(0,1)`
4. `[0,1]`

**Options :**

89951446055. 1

89951446056. 2

89951446057. 3

89951446058. 4

**Question Number : 45 Question Id : 89951411794 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Choose the correct way to access value 20 from the following tuple

aTuple = ("SWAYAM", [10, 20, 30], (5, 15, 25), "Python")

1. aTuple[1:2][1:1]

2. aTuple[1:2](1)

3. aTuple[1:2][1]

4. aTuple[1][1]

**Options :**

89951446059. 1

89951446060. 2

89951446061. 3

89951446062. 4

**Question Number : 46 Question Id : 89951411795 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is the output of the following piece of code?

```
class test:
```

```
    def __init__(self,a="Hello World"):
```

```
        self.a=a
```

```
    def display(self):
```

```
        print(self.a)
```

```
obj=test()
```

```
obj.display()
```

1. The program has an error because constructor can't have default arguments
2. Nothing is displayed
3. "Hello World" is displayed
4. The program has an error display function doesn't have parameters

**Options :**

89951446063. 1

89951446064. 2

89951446065. 3

89951446066. 4

**Question Number : 47 Question Id : 89951411796 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Identify the output of the following code.

```
class A:
    def test(self):
        print("test of A called")
class B(A):
    def test(self):
        print("test of B called")
        super().test()
class C(A):
    def test(self):
        print("test of C called")
        super().test()
class D(B,C):
    def test2(self):
        print("test of D called")
```

obj=D()

obj.test()

1. test of B called  
test of C called  
test of A called
2. test of C called  
test of B called
3. test of B called  
test of C called
4. Error, all the three classes from which D derives has same method test()

**Options :**

89951446067. 1

89951446068. 2

89951446069. 3

89951446070. 4

**Correct Marks : 1 Wrong Marks : 0**

What is the output of the following piece of code?

```
class Demo:
    def __init__(self):
        pass
    def test(self):
        print(__name__)
obj = Demo()
obj.test()
1. Exception is thrown
2. __main__
3. Demo
4. test
```

**Options :**

- 89951446071. 1
- 89951446072. 2
- 89951446073. 3
- 89951446074. 4

**Question Number : 49 Question Id : 89951411798 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Name the feature of Object-Oriented Paradigm that enables binding of object property with their methods.

- 1. Abstraction
- 2. Encapsulation
- 3. Polymorphism
- 4. Remote Procedural Call

**Options :**

- 89951446075. 1

89951446076. 2

89951446077. 3

89951446078. 4

**Question Number : 50 Question Id : 89951411799 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of below Python code?.

```
class Student:
```

```
    def __init__(self,name,id):
```

```
        self.name=name
```

```
        self.id=id
```

```
        print(self.id)
```

```
std=Student("Simon",1)
```

```
std.id=2
```

```
print(std.id)
```

1. 1

1

2. 1

2

3. 2

1

4. 2

2

**Options :**

89951446079. 1

89951446080. 2

89951446081. 3

89951446082. 4

**Question Number : 51 Question Id : 89951411800 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

```
#module 1
def change(a):
    b=[x*2 for x in a]
    print(b)
#module 2
def change(a):
    b=[x*x for x in a]
    print(b)
from mod1 import change
from mod2 import change
#main
s=[1,2,3]
change(s)
```

1. [2,4,6]
2. [1,4,9]
3. [2,4,6] and [1,4,9]
4. There is a name clash

**Options :**

- 89951446083. 1
- 89951446084. 2
- 89951446085. 3
- 89951446086. 4

**Question Number : 52 Question Id : 89951411801 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of below Python code?.

```
class A():  
    def __init__(self,count=100):  
        self.count=count  
  
obj1=A()  
obj2=A(102)  
print(obj1.count)  
print(obj2.count)
```

1. 100  
100
2. 100  
102
3. 102  
102
4. Error

**Options :**

- 89951446087. 1
- 89951446088. 2
- 89951446089. 3
- 89951446090. 4

**Question Number : 53 Question Id : 89951411802 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**



Which of the following is required to create a new instance of the class?

1. A constructor
2. A class
3. A value-returning method
4. None method

**Options :**

89951446091. 1  
89951446092. 2  
89951446093. 3  
89951446094. 4

**Question Number : 54 Question Id : 89951411803 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Methods of a class that provide access to private members of the class are called as \_\_\_\_\_ and \_\_\_\_\_

1. getters/setters
2. \_\_repr\_\_/\_str\_\_
3. user-defined functions/in-built functions
4. \_\_init\_\_/\_del\_\_

**Options :**

89951446095. 1  
89951446096. 2  
89951446097. 3  
89951446098. 4

**Question Number : 55 Question Id : 89951411804 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Which of the following statements is true?

1. A non-private method in a superclass can be overridden
2. A subclass method can be overridden by the super class
3. A private method in a super class can be overridden
4. Overriding is not possible in Python

**Options :**

89951446099. 1

89951446100. 2

89951446101. 3

89951446102. 4

**Question Number : 56 Question Id : 89951411805 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

----- will create a new window.

1. window=newWindow()
2. window=Window()
3. window=frame()
4. window=Tk()

**Options :**

89951446103. 1

89951446104. 2

89951446105. 3

89951446106. 4

**Question Number : 57 Question Id : 89951411806 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is the difference between a flowchart and pseudocode?

1. A flowchart is diagrammatic whilst pseudocode is written in a programming language (eg. Python)
2. A flowchart is textual but pseudocode is diagrammatic
3. A flowchart is a diagrammatic description of an algorithm whilst pseudocode is a textual description of an algorithm
4. A flowchart and pseudocode are the same thing

**Options :**

89951446107. 1

89951446108. 2

89951446109. 3

89951446110. 4

**Question Number : 58 Question Id : 89951411807 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the value of s if n=127 in the following pseudocode?

Begin

Read n

i=0,s=0

while(n>0)

    r=n%10

    p=8<sup>i</sup>

    s=s+p\*r

    i=i+1

    n=n/10

print s

1. 27
2. 187
3. 87
4. 120

**Options :**

89951446111. 1

89951446112. 2

89951446113. 3

89951446114. 4

**Question Number : 59 Question Id : 89951411808 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

```
print('Hai' {} Welcome {1} {2} {3}'.format(' Friends', 'to', 'Python','programming'))
```

1. Error
2. Hai Friends Welcome to Python programming
3. 'Hai' Friends Welcome to Python programming
4. Hai Welcome to Python programming

**Options :**

- 89951446115. 1
- 89951446116. 2
- 89951446117. 3
- 89951446118. 4

**Question Number : 60 Question Id : 89951411809 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Find the output of the following Python code

```
x = "abcdef"
```

```
i = "i"
```

```
while i in x:
```

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

1. a b c d e f
2. abcdef
3. i i i i i.....
4. No Output

**Options :**

- 89951446119. 1
- 89951446120. 2
- 89951446121. 3
- 89951446122. 4

**Question Number : 61 Question Id : 89951411810 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

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

```
    print(i)
```

1. 0.0 0.1
2. 0 1
3. Error
4. none of the mentioned

**Options :**

- 89951446123. 1
- 89951446124. 2
- 89951446125. 3
- 89951446126. 4

**Question Number : 62 Question Id : 89951411811 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

```
import turtle
```

```
t=turtle.Pen()
```

```
for i in range(0,5):
```

```
    t.left(144)
```

```
    t.forward(100)
```

1. Trapezium
2. Parallelepiped
3. Tetrahedron
4. Star

**Options :**

89951446127. 1  
89951446128. 2  
89951446129. 3  
89951446130. 4

**Question Number : 63 Question Id : 89951411812 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The output of the following Python code will result in a shape similar to the alphabet

```
import turtle
t=turtle.Turtle()
t1=turtle.Turtle()
t.left(45)
tleft(135)
t.forward(100)
tforward(100)
```

1. V
2. Inverted V
3. X
4. T

**Options :**

89951446131. 1  
89951446132. 2  
89951446133. 3  
89951446134. 4

**Question Number : 64 Question Id : 89951411813 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Find the output of the following code

```
import turtle
t=turtle.Pen()
t.pencolor("red")
t.color(1,1,1)
for i in range(0,3):
    t.forward(100)
    t.right(120)
```

1. A triangle filled in with the red color
2. A triangle with red color border
3. Blank page
4. A square with red color border.

**Options :**

- 89951446135. 1
- 89951446136. 2
- 89951446137. 3
- 89951446138. 4

**Question Number : 65 Question Id : 89951411814 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

----- will create an event loop.

1. window.loop()
2. window.main()
3. window.eventloop()
4. window.mainloop()

**Options :**

- 89951446139. 1
- 89951446140. 2
- 89951446141. 3



89951446142. 4

**Question Number : 66 Question Id : 89951411815 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The method that sends data to the server is

1. GET
2. POST
3. HEAD
4. PUT

**Options :**

89951446143. 1  
89951446144. 2  
89951446145. 3  
89951446146. 4

**Question Number : 67 Question Id : 89951411816 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The first computers were programmed using

1. Assembly language
2. Machine Language
3. High level Language
4. BASIC language

**Options :**

89951446147. 1  
89951446148. 2  
89951446149. 3  
89951446150. 4

**Question Number : 68 Question Id : 89951411817 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What does RMI stand for?

- 1.Remote Mail Invocation
2. Remote Message Invocation
3. Remaining Method Invocation
- 4.Remote Method Invocation

**Options :**

- 89951446151. 1
- 89951446152. 2
- 89951446153. 3
- 89951446154. 4

**Question Number : 69 Question Id : 89951411818 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The \_\_\_\_\_ layer, which provides the interface that client and server application objects use to interact with each other.

1. Interface
2. Middle
3. Intermediate
- 4.Stub/skeleton

**Options :**

- 89951446155. 1
- 89951446156. 2
- 89951446157. 3
- 89951446158. 4

**Question Number : 70 Question Id : 89951411819 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

A gateway for the server side object is ----

- 1.Skeleton
- 2.stub
- 3.remote
- 4.server

**Options :**

- 89951446159. 1
- 89951446160. 2
- 89951446161. 3
- 89951446162. 4

**Question Number : 71 Question Id : 89951411820 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What will be the output of given Python code?.

```
str1="hello"  
c=0  
for x in str1:  
    if(x!="l"):  
        c=c+1  
    else:  
        pass  
print(c)
```

- 1. 2
- 2. 0
- 3. 4
- 4. 3

**Options :**

- 89951446163. 1
- 89951446164. 2
- 89951446165. 3
- 89951446166. 4

**Question Number : 72 Question Id : 89951411821 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

How would you create a for loop to iterate over the elements of the list `numlist = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]` and print each element in the list ?

1. `for item in range(numlist):`  
    `print(item)`
2. `for item in range(len(numlist)):`  
    `print(item)`
3. `for item in len(numlist):`  
    `print(item)`
4. `for item in numlist[0]`  
    `print(item)`

**Options :**

- 89951446167. 1
- 89951446168. 2
- 89951446169. 3
- 89951446170. 4

**Question Number : 73 Question Id : 89951411822 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Which of the following sequences would be generated by the given line of code? .

`range (5, 0, -2)`

1. 5 4 3 2 1 0 -1
2. 5 4 3 2 1 0
3. 5 3 1
4. None of the above

**Options :**

- 89951446171. 1
- 89951446172. 2
- 89951446173. 3
- 89951446174. 4

**Question Number : 74 Question Id : 89951411823 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Which method is used to retrieve the executed database function or stored procedure result in Python?

1. cursor.stored\_results()
- 2.cursor.get\_results()
- 3.cursor.fetch\_results()
- 4.cursor.get\_stored\_results()

**Options :**

89951446175. 1  
89951446176. 2  
89951446177. 3  
89951446178. 4

**Question Number : 75 Question Id : 89951411824 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Exception raised when the relational integrity of the database is affected in Python

1. IntegrityFailError
- 2.IntegrityError
- 3.IntegrityViolationError
- 4.IntegrityCheckError

**Options :**

89951446179. 1  
89951446180. 2  
89951446181. 3  
89951446182. 4

**Question Number : 76 Question Id : 89951411825 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Which method of cursor class is used to get the number of rows affected after any of the insert/update/delete database operation executed from Python

- 1.cursor.rowcount
- 2.cursor.getaffectedcount
- 3.cursor.rowscount
- 4.cursor.getrowcount

**Options :**

- 89951446183. 1
- 89951446184. 2
- 89951446185. 3
- 89951446186. 4

**Question Number : 77 Question Id : 89951411826 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What type of inheritance is illustrated in the following Python code?

```
class A():  
    pass  
class B(A):  
    pass  
class C(B):  
    pass
```

- 1. Multi-level inheritance
- 2. Multiple inheritance
- 3. Hierarchical inheritance
- 4. Single-level inheritance

**Options :**

- 89951446187. 1
- 89951446188. 2
- 89951446189. 3
- 89951446190. 4

**Question Number : 78 Question Id : 89951411827 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Suppose A is a subclass of B, to invoke the `__init__` method in B from A, you write

- 1. `super().__init__()`
- 2. `super().__init__(self)`
- 3. `B.__init__()`
- 4. `A.__init__(self)`

**Options :**

- 89951446191. 1
- 89951446192. 2
- 89951446193. 3
- 89951446194. 4

**Question Number : 79 Question Id : 89951411828 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

```
class A:
```

```
    def __init__(self):
```

```
        self._x = 5
```

```
class B(A):
```

```
    def display(self):
```

```
        print(self._x)
```

```
def main():
```

```
    obj = B()
```

```
    obj.display()
```

```
main()
```

- 1. Error, invalid syntax for object declaration
- 2. Nothing is printed
- 3. 5
- 4. Error, private class member can't be accessed in a subclass

**Options :**

- 89951446195. 1
- 89951446196. 2

89951446197. 3

89951446198. 4

**Question Number : 80 Question Id : 89951411829 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the output of the following code :  
`print 9//2`

- 1. 4.5
- 2. 4.0
- 3. 4
- 4. Error

**Options :**

89951446199. 1

89951446200. 2

89951446201. 3

89951446202. 4

**Question Number : 81 Question Id : 89951411830 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What is the value of the following expression?  
`print(2+4.00, 2**4.0)`

- 1. 6.0 16.0
- 2. 6.00 16.00
- 3. 6 16
- 4. 6.00 16.0

**Options :**

89951446203. 1

89951446204. 2

89951446205. 3

89951446206. 4



**Question Number : 82 Question Id : 89951411831 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

What is the value of the following expression?

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

1. 1.0 1.0
2. 1.0 4.0
3. 4.0 1.0
4. 4.0 4.0

**Options :**

89951446207. 1  
89951446208. 2  
89951446209. 3  
89951446210. 4

**Question Number : 83 Question Id : 89951411832 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

What is the maximum length of an identifier in python?

1. 32
2. 31
3. 63
4. Any Length

**Options :**

89951446211. 1  
89951446212. 2  
89951446213. 3  
89951446214. 4

**Question Number : 84 Question Id : 89951411833 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

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

- 1.int x  
  x=5
2. int x=5
3. x=5
- 4.declare x=5

**Options :**

89951446215. 1  
89951446216. 2  
89951446217. 3  
89951446218. 4

**Question Number : 85 Question Id : 89951411834 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The data that is provided in the variable are known as

- 1.Constant
- 2.Literal
- 3.Datatype
- 4.Inheritance

**Options :**

89951446219. 1  
89951446220. 2  
89951446221. 3  
89951446222. 4

**Question Number : 86 Question Id : 89951411835 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The first step in process of problem solving is to

1. design a solution
2. define a problem
3. practicing the solution
4. organizing the data

**Options :**

89951446223. 1

89951446224. 2

89951446225. 3

89951446226. 4

**Question Number : 87 Question Id : 89951411836 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

What is Instantiation in terms of OOP terminology?

1. Deleting an instance of class
2. Modifying an instance of class
3. Copying an instance of class
4. Creating an instance of class

**Options :**

89951446227. 1

89951446228. 2

89951446229. 3

89951446230. 4

**Question Number : 88 Question Id : 89951411837 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**

**Correct Marks : 1 Wrong Marks : 0**

Algorithm is made up of

1. Sequence to print data
2. Selection
3. Repetition
4. All of the options

**Options :**

- 89951446231. 1
- 89951446232. 2
- 89951446233. 3
- 89951446234. 4

**Question Number : 89 Question Id : 89951411838 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What will be the output of the following Python code?

```
def a():  
    try:  
        f(x, 4)  
    finally:  
        print('after f')  
        print('after f?')  
a()
```

- 1. No output
- 2. after f?
- 3. error
- 4. after f

**Options :**

- 89951446235. 1
- 89951446236. 2
- 89951446237. 3
- 89951446238. 4

**Question Number : 90 Question Id : 89951411839 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

Which of these about a dictionary is false?

- 1. The values of a dictionary can be accessed using keys
- 2. The keys of a dictionary can be accessed using values
- 3. Dictionaries aren't ordered
- 4. Dictionaries are mutable

**Options :**

89951446239. 1  
89951446240. 2  
89951446241. 3  
89951446242. 4

**Question Number : 91 Question Id : 89951411840 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

When will the else part of try-except-else be executed?

1. always
2. when an exception occurs in try block
3. when no exception occurs in try block
4. when an exception occurs in except block

**Options :**

89951446243. 1  
89951446244. 2  
89951446245. 3  
89951446246. 4

**Question Number : 92 Question Id : 89951411841 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Which of the following makes use of pandas and returns data in a Series or DataFrame ?

1. PandaSDMX
2. freedapi
3. OutPy
4. PandaPy

**Options :**

89951446247. 1  
89951446248. 2  
89951446249. 3  
89951446250. 4

**Question Number : 93 Question Id : 89951411842 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Which of the following is implemented on DataFrame to compute the correlation between like-labeled Series contained in different DataFrame objects ?

1. corrwith
- 2.corwith
- 3.corwit
4. correlate

**Options :**

89951446251. 1  
89951446252. 2  
89951446253. 3  
89951446254. 4

**Question Number : 94 Question Id : 89951411843 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Which of the following takes a dict of dicts or a dict of array-like sequences and returns a DataFrame?

- 1.DataFrame.from\_items
- 2.DataFrame.from\_records
- 3.DataFrame.from\_dict
- 4.All of the options

**Options :**

89951446255. 1  
89951446256. 2  
89951446257. 3  
89951446258. 4

**Question Number : 95 Question Id : 89951411844 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No**  
**Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a keyword?

1. except
2. is
3. open
4. with

**Options :**

89951446259. 1  
89951446260. 2  
89951446261. 3  
89951446262. 4

**Question Number : 96 Question Id : 89951411845 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Which of the following is not a declaration of the dictionary?

1. {1: 'A', 2: 'B'}
2. dict([[1, "A"], [2, "B"]])
3. {1, "A", 2 "B"}
4. {}

**Options :**

89951446263. 1  
89951446264. 2  
89951446265. 3  
89951446266. 4

**Question Number : 97 Question Id : 89951411846 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No  
Correct Marks : 1 Wrong Marks : 0**

Which of the following HTTP Status code means OK, shows success?

1. 200
2. 201
3. 204
4. 304

**Options :**

- 89951446267. 1
- 89951446268. 2
- 89951446269. 3
- 89951446270. 4

**Question Number : 98 Question Id : 89951411847 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

The client in socket programming must know which information?

- 1. IP address of Server
- 2. Port number
- 3. Both IP address of Server and Port number
- 4. Either IP address or Port Number

**Options :**

- 89951446271. 1
- 89951446272. 2
- 89951446273. 3
- 89951446274. 4

**Question Number : 99 Question Id : 89951411848 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

How many keyword arguments can be passed to a function in a single function call?

- 1. One
- 2. One or more
- 3. Zero
- 4. Zero or more

**Options :**

- 89951446275. 1
- 89951446276. 2
- 89951446277. 3



89951446278. 4

**Question Number : 100 Question Id : 89951411849 Question Type : MCQ Option Shuffling : No Is Question Mandatory : No Correct Marks : 1 Wrong Marks : 0**

What happens if a local variable exists with the same name as the global variable you want to access?

1. Error
2. Undefined behavior
3. The local variable is shadowed
4. The global variable is shadowed

**Options :**

89951446279. 1

89951446280. 2

89951446281. 3

89951446282. 4