Registration Number:

Date & Session21-12-2022

**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BENGALURU -27**

**OPEN ELECTIVE– III SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2022**

**(Examination conducted in December 2022)**

**DAOE3 – PYTHON PROGRAMMING**

**Time: 2 Hours Max Marks: 60**

**This paper contains 8 printed pages and 1 part**

**PART-A**

**Answer all the questions 60 x 1 = 60**

1. Who developed the Python language?
2. Zim Den
3. Guido van Rossum
4. Niene Stom
5. Wick van Rossum
6. Which one of the following is the correct extension of the Python file?
7. .py
8. .python
9. .p
10. .px
11. Given a function that does not return any value, What value is thrown by default when executed in shell.

a) int

b) bool

c) void

d) None

1. Is Python case sensitive when dealing with identifiers?

a) yes

b) no

c) machine dependent

d) none of the mentioned

1. Which of the following is an invalid variable?

a) my\_string\_1

b) 1st\_string

c) foo

d) \_

1. What is the type of inf ?

a) Boolean

b) Integer

c) Float

d) Complex

1. Which of the following is incorrect?

a) x = 0b101

b) x = 0x4f5

c) x = 19023

d) x = 03964

1. What do we use to define a block of code in Python language?
2. Key
3. Brackets
4. Indentation
5. None of these
6. What will be the output of the following Python statement?

>>>"a"+"bc"

a) bc

b) abc

c) a

d) bca

1. Which of the following statements create a dictionary?

a) d = {}

b) d = {“john”:40, “peter”:45}

c) d = {40:”john”, 45:”peter”}

d) All of the mentioned

1. Which of the following statements is correct for variable names in Python language?
2. All variable names must begin with an underscore.
3. Unlimited length
4. The variable name length is a maximum of 2.
5. All of the above
6. What error will occur when you execute the following code?
7. MANGO = APPLE
8. NameError
9. SyntaxError
10. TypeError
11. ValueError
12. L = [2, 54, 'javatpoint', 5]

What will be the datatype of the above statement?

1. Dictionary
2. Tuple
3. List
4. Stack
5. What happens when '2' == 2 is executed?
6. False
7. True
8. ValueError occurs
9. TypeError occurs
10. How many control statements python supports?
11. Four
12. Five
13. Three
14. None
15. Which of the following arithmetic operators cannot be used with strings in python?
16. +
17. \*
18. -
19. All of the mentioned
20. Which of the following keywords is not reversed keyword in python?
21. none
22. class
23. goto
24. and
25. Which of the following statements is not valid regarding the variable in python?
26. The variable\_name can begin with alphabets
27. The variable\_name can begin with an underscore
28. The variable\_name can begin with a number
29. None of the these
30. Which of the following statements is valid for "if statement"?
31. if f >= 12:
32. if (f >= 122)
33. if (f => 1222)
34. if f >= 12222
35. Which of the following blocks allows you to test the code blocks for errors?
36. except block
37. try block
38. finally block
39. None of the these
40. Which of the following statements would create a list in python?
41. List2 = ["beans", "onion", "carrot"]
42. List2 = ("beans", "onion", "")
43. List2 = ("2" \* ("beans", "onion", "carrot"))
44. None of the these
45. Study the following program:

set = {0, 0, "a1", 0, 9}

print(set)

What will be the output of this program?

1. {0, 0, 'a1', 0, 9}
2. {0, 'a1', 0, 9}
3. {0, 9, 'a1'}
4. {0, 0, 9, 0, 'a1'}
5. Which of the following statements would create a tuple in python?
6. mytuple = ("apple", "banana", "cherry")
7. mytuple[123] = ("apple", "banana", "cherry")
8. mytuple = ("2" \* ("apple", "banana", "cherry"))
9. None of the these
10. Study the following program:

mytuple1 = (2, 4, 3)

mytuple3 = mytuple1 \* 2

print(mytuple3)

What will be the output of this program?

1. (2, 4, 3, 2, 4, 3)
2. (2, 2, 4, 4, 3, 3)
3. (4, 8, 6)
4. Error
5. Suppose t = (1, 2, 4, 3), which of the following is incorrect?

a) print(t[3])

b) t[3] = 45

c) print(max(t))

d) print(len(t))

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

>>>t=(1,2,4,3)

>>>t[1:3]

a) (1, 2)

b) (1, 2, 4)

c) (2, 4)

d) (2, 4, 3)

1. Which of these about a set is not true?

a) Mutable data type

b) Allows duplicate values

c) Data type with unordered values

d) Immutable data type

1. Which of the following statements is used to create an empty list in Python?

a) ( )

b) [ ]

c) { }

d) list[ ]

1. If a=(5,6,7,8), which of the following statements is false?

a) print(len(a))

b) print(min(a))

c) a.remove(5)

d) a[2]=45

1. Which one of the following is not a keyword in Python language?

a) pass

b) eval

c) assert

d) nonlocal

1. What is the order of precedence in python?

a) Exponential, Parentheses, Multiplication, Division, Addition, Subtraction

b) Exponential, Parentheses, Division, Multiplication, Addition, Subtraction

c) Parentheses, Exponential, Multiplication, Division, Subtraction, Addition

d) Parentheses, Exponential, Multiplication, Division, Addition, Subtraction

1. 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]

1. To remove string “hello” from list1, we use which command?

a) list1.remove(“hello”)

b) list1.remove(hello)

c) list1.removeAll(“hello”)

d) list1.removeOne(“hello”)

1. If a is a dictionary with some key-value pairs, what does a.popitem() do?

a) Removes an arbitrary element

b) Removes all the key-value pairs

c) Removes the key-value pair for the key given as an argument

d) Invalid method for dictionary

1. What is returned by math.modf(1.0)?

a) (0.0, 1.0)

b) (1.0, 0.0)

c) (0.5, 1)

d) (0.5, 1.0)

1. \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ are two ways to comment in Python.
2. Single and Multilevel comments
3. Single line and Double line comments
4. One and Many line comments
5. Single line and Multiline comments
6. Multiline comments can be done by adding \_\_\_\_\_\_\_\_\_\_\_\_\_ on each end of the comment.
7. "' "'(triple quote)
8. # (Hash)
9. $ (dollar)
10. % (modulus)
11. The operators is and is not are \_\_\_\_\_\_\_\_\_\_\_\_\_.
    1. Identity Operators
    2. Comparison Operators
    3. Membership Operators
    4. Unary Operators
12. The step argument in range() function \_\_\_\_\_\_\_\_\_.
13. indicates the beginning of the sequence
14. indicates the end of the sequence
15. indicates the difference between every two consecutive numbers in the sequence
16. generates numbers up to a specified value
17. Judge the output of the following code snippet.

for i in range(10):

if i == 5:

break

else:

print(i)

1. 0 1 2 3 4
2. 0 1 2 3 4 5
3. 0 1 2 3
4. 1 2 3 4 5
5. Deduce the output of the following code:

print('Data Science'.istitle())

1. True
2. False
3. Error
4. None
5. To add a new element to a list the statement used is?
6. zoo. add(5)
7. zoo.append("snake")
8. zoo.addLast(5)
9. zoo.addend(4)
10. Which of the following statement is false about the dictionary?
11. The values of a dictionary can be accessed using keys.
12. The keys of a dictionary can be accessed using values.
13. Dictionaries are not ordered.
14. Dictionaries are mutable.

43. \_\_\_\_\_ represents an entity in the real world with its identity and behaviour.

1. A method
2. An object
3. A class
4. An operator

44. \_\_\_\_\_ is used to create an object.

1. class
2. constructor
3. User-defined functions
4. In-built functions

45. Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1 after list1.reverse()?

1. [3, 4, 5, 20, 5, 25, 1, 3]
2. [1, 3, 3, 4, 5, 5, 20, 25]
3. [25, 20, 5, 5, 4, 3, 3, 1]
4. [3, 1, 25, 5, 20, 5, 4, 3]
5. What is the output when we execute list(“hello”)?

a) [‘h’, ‘e’, ‘l’, ‘l’, ‘o’]

b) [‘hello’]

c) [‘llo’]

d) [‘olleh’]

1. To insert 5 to the third position in list1, we use which command?  
   a) list1.insert(3, 5)  
   b) list1.insert(2, 5)  
   c) list1.add(3, 5)  
   d) list1.append(3, 5)
2. Suppose list1 is [3, 4, 5, 20, 5], what is list1.index(5)?  
   a) 0  
   b) 1  
   c) 4  
   d) 2
3. Suppose list1 is [3, 4, 5, 20, 5, 25, 1, 3], what is list1.count(5)?  
   a) 0  
   b) 2  
   c) 1  
   d) 3
4. Is the following Python code valid?

>>> a=(1,2,3,4)

>>> del a

a) No because tuple is immutable

b) Yes, first element in the tuple is deleted

c) Yes, the entire tuple is deleted

d) No, invalid syntax for del method

* 1. Which one of these is floor division?

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

* 1. Mathematical operations can be performed on a string.

a) True

b) False

* 1. In order to store values in terms of key and value we use what core data type.

a) list

b) tuple

c) class

d) dictionary

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

d = {"john":40, "peter":45}

1. “john”, 40, 45, and “peter”
2. “john” and “peter”
3. 40 and 45
4. d = (40:”john”, 45:”peter”

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

>>> a=(1,2,3,4)

>>> del(a[2])

a) Now, a=(1,2,4)  
b) Now, a=(1,3,4)  
c) Now a=(3,4)  
d) Error as tuple is immutable

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

>>> a=(2,3,4)

>>> sum(a,3)

a) Too many arguments for sum() method  
b) The method sum() doesn’t exist for tuples  
c) 12  
d) 9

57. Is the following Python code valid?

>>> a,b,c=1,2,3

>>> a,b,c

a) Yes, [1,2,3] is printed  
b) No, invalid syntax  
c) Yes, (1,2,3) is printed  
d) 1 is printed

58. What will be the output after the following statements?

x = 6

y = 3

print(x / y)

1. 2.0
2. 2
3. 18
4. 18.0

59. What will be the output after the following statements?

x = 8

y = 2

print(x // y)

1. 4.0
2. 4
3. 16
4. 16.0

60. What will be the output after the following statements?

x = [25, 14, 53, 62, 11]

x.sort()

print(x)

1. [11, 14, 25, 53, 62]
2. [25, 14, 53, 62, 11]
3. [62, 53, 25, 14, 11]
4. [25, 53, 62, 14, 11]