

B. Sc. Information Technology
Class: SYIT
SEM III
Python Programming
Sample Questions

MULTIPLE CHOICE QUESTIONS

1) What is the output of the following program :

```
i = 0
while i < 3:
    print (i)
    i=i+1
    print (i+1)
```

- a. 0 1 2 3
- b. 0 1 1 2 2 3
- c. 0 2 1 3 2 4
- d. Error

2) "the transaction T1 is being executed and using the data item X, then that data item can't be accessed by any other transaction T2 until the transaction T1 ends" is the example of

- a. Atomicity
- b. Consistency
- c. Isolation
- d. Durability

3) What will be the output of the following Python code?

```
a={1:"A",2:"B",3:"C"}
b=a.copy()
b[2]="D"
print(a)
```

- a. Error, copy() method doesn't exist for dictionaries
- b. {1: 'A', 2: 'B', 3: 'C'}
- c. {1: 'A', 2: 'D', 3: 'C'}
- d. "None" is printed

4) Select Correct way to insert image in canvas tkinter .

- a. draw_image()
- b. canvas.create_image()
- c. canvas.draw_image()
- d. create_image(canvas)

5) What will be the output of the following Python code?

```
print("SYIT PYTHON PROGRAMMING".find("TH"))
```

- a. True
 - b. 4
 - c. 8
 - d. 7
- 6) Which of the following is not a keyword?
- a. true
 - b. for
 - c. in
 - d. while
- 7) "is" is _____ operator.
- a. membership operator
 - b. arithmetic operator
 - c. Identity operator
 - d. assignment operator
- 8) Guido Van Rossum developed python in _____ year.
- a. 1989
 - b. 1990
 - c. 2000
 - d. 1998
- 9) [](square brackets) are used to define _____ in python.
- a. Dictionary
 - b. String
 - c. List
 - d. Tuple
- 10) Single line comments is defined by which symbols?
- a. //
 - b. "_____"
 - c. /*
 - d. #
- 11) Semantic error is also called as _____.
- a. Logical error
 - b. Logic error
 - c. Syntax error
 - d. Runtime error
- 12) Combination of value, variables and operator is called as _____.
- a. Value
 - b. Variable
 - c. Statement
 - d. Expression

- 13) Variable name cannot start with _____.
- a. Number
 - b. Letter
 - c. Character
 - d. string

- 14) IDLE stands for _____.
- a. Integrated Develop and Learning Environment
 - b. Integrating Development and Learning Environment
 - c. Integrate Development and Learning Environment
 - d. Integrated Development and Learning Environment

- 15) Type conversion is changing one data type to another data type. It is also called as _____.
- a. Type casting
 - b. Type changing
 - c. Type chance
 - d. Type Change

- 16) Output of the following code is:

```
niraj.py - C:/Users/Admin/AppData/Local/Programs/Python/Python
File Edit Format Run Options Window Help
name = 'Hello Python'
print(name[0:5])
```

- a. 'Hello'
 - b. Hello
 - c. hello
 - d. 'hello '
- 17) A _____ is a block of organized, reusable code that is used to perform a single, related action.
- a. Function
 - b. String
 - c. Loop
 - d. Conditional Statement
- 18) A _____ is the variable listed inside the parentheses in the function definition.
- a. Parameter
 - b. Argument
 - c. Variable
 - d. Constant
- 19) The function which returns the value is called as _____ function.
- a. Fruitful
 - b. Void
 - c. Boolean
 - d. Return

- 20) Python stops calling recursive function after _____ call by default.
- 1000
 - 100
 - 10000
 - 9000

21) Output of the following code is:

```
File Edit Format Run Options Window Help
b = 'Hi Hope you all are enjoying studying python programming language'
print(b.find('z'))
```

- 1
 - False
 - 0
 - 10
- 22) Which is not the string operation from the list below?
- concatenation (+)
 - repetition (*)
 - membership operator (in & not in)
 - identity operator (is & is not)

23) Output of the following code is:

```
File Edit Format Run Options Window Help
x='hi How are you?'
print(x.capitalize())
```

- 'Hi how are you?'
- 'Hi How are you?'
- 'Hi How Are you?'
- Hi How Are you?

24) Output of the following code is:

```
File Edit Format Run Options Window Help
b = 'Hello, World!'
print(b[2:5])
```

- 'llo'
 - 'llo,'
 - 'ello'
 - llo
- 25) 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(max(t))`

26) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
t = (1, 2, 4, 3)
print(t[1:-1])
```

- a. (1, 2)
- b. (1, 2, 4)
- c. (2, 4)
- d. (2, 4, 3)

27) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
t = (1, 2)
print(2 * t)
```

- a. (1, 2, 1, 2)
- b. [1, 2, 1, 2]
- c. (1, 1, 2, 2)
- d. [1, 1, 2, 2]

28) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
my_tuple = (1, 2, 3, 4)
my_tuple.append( (5, 6, 7) )
print(len(my_tuple))
```

- a. 1
- b. 2
- c. 5
- d. Error

29) What will be the output of the following Python code?

```
niraj.py - C:/Users/Admin/AppData/Local/Programs/Python/Python3
File Edit Format Run Options Window Help
list1 = [11, 2, 23]
list2 = [11, 2, 2]
print(list1 < list2)
```

- a. True

- b. False
- c. Error
- d. -1

30) To add a new element to a list we use which command?

- a. list1.add(5)
- b. list1.append(5)
- c. list1.addLast(5)
- d. list1.addEnd(5)

31) What will be the output of the following Python functions?

```
File Edit Format Run Options Win
chr( '97' )
chr(97)
```

- a. a
Error
- b. 'a'
a
- c. Error
a
- d. Error
Error

32) What are the two main types of functions?

- a. Custom function
- b. Built-in function & User defined function
- c. User function
- d. System function

33) If a function doesn't have a return statement, which of the following does the function return?

- a. int
- b. null
- c. None
- d. An exception is thrown without the return statement

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

- a. infile.read(2)
- b. infile.read()
- c. infile.readline()
- d. infile.readlines()

35) The readlines() method returns _____

- a) str

- a. a list of lines
- b. a list of single characters
- c. a list of integers

36) What is the use of tell() method in python?

- a. tells you the current position within the file
- b. tells you the end position within the file
- c. tells you the file is opened or not
- d. tells you file is opened

37) What is the current syntax of remove() a file?

- a. remove(file_name)
- b. remove(new_file_name, current_file_name,)
- c. remove(, file_name))
- d. remove(current_file_name, new_file_name,)

38) Which of the following mode will refer to binary data?

- a. r
- b. w
- c. +
- d. B

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

- a. no difference
- b. in r+ the pointer is initially placed at the beginning of the file and the pointer is at the end for w+
- c. in w+ the pointer is initially placed at the beginning of the file and the pointer is at the end for r+
- d. depends on the operating system

40) How do you get the current position within the file?

- a. fp.seek()
- b. fp.tell()
- c. fp.loc
- d. fp.pos

41) What will be the output of the following Python code snippet?

```
d = {"john":40, "peter":45}
d["john"]
```

- a. 40
- b. 45
- c. "john"
- d. "peter"

42) Which of the following isn't true about dictionary keys?

- a. More than one key isn't allowed

- b. Keys must be immutable
- c. Keys must be integers
- d. When duplicate keys encountered, the last assignment wins

43) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
a={1:5, 2:3, 3:4}
print(a.pop(4,9))
```

- a. 9
- b. 3
- c. Too many arguments for pop() method
- d. 4

44) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
a={1:"A", 2:"B", 3:"C"}
a.items()
```

- a. Syntax error
- b. dict_items([('A'), ('B'), ('C')])
- c. dict_items([(1,2,3)])
- d. dict_items([(1, 'A'), (2, 'B'), (3, 'C')])

45) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
a={'B':5, 'A':9, 'C':7}
sorted(a)
```

- a. ['A','B','C']
- b. ['B','C','A']
- c. [5,7,9]
- d. [9,5,7]

46) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
a=dict()
a[1]
```

- a. An exception is thrown since the dictionary is empty
- b. ''
- c. 1
- d. 0

47) Why are local variable names beginning with an underscore discouraged?

- a. they are used to indicate a private variables of a class
- b. they confuse the interpreter
- c. they are used to indicate global variables
- d. they slow down execution

48) Which of the following is an invalid statement?

- a. `abc = 1,000,000`
- b. `a b c = 1000 2000 3000`
- c. `a,b,c = 1000, 2000, 3000`
- d. `a_b_c = 1,000,000`

49) What is the order of precedence in python?

- i) Parentheses
 - ii) Exponential
 - iii) Multiplication
 - iv) Division
 - v) Addition
 - vi) Subtraction
-
- a. i,ii,iii,iv,v,vi
 - b. ii,i,iii,iv,v,vi
 - c. ii,i,iv,iii,v,vi
 - d. i,ii,iii,iv,vi,v

50) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
x = 'abcd'
for i in x:
    print(i.upper())
```

- a. a b c d
- b. A B C D
- c. a B C D
- d. error

51) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
d = {0: 'a', 1: 'b', 2: 'c'}
for x, y in d.items():
    print(x, y)
```

- a. 0 1 2
- b. a b c
- c. 0 a 1 b 2 c
- d. 0a 1 2

52) What will be the output of the following Python code snippet?

```
File Edit Format Run Options Window Help
for i in ''.join(reversed(list('abcd'))):
    print(i)
```

- a. a b c d

- b. d c b a
- c. error
- d. None

53) What will be the output of the following Python code?

```
string = "my name is x"  
for i in string.split():  
    print (i, end=", ")
```

- a. m, y, , n, a, m, e, , i, s, , x,
- b. m, y, , n, a, m, e, , i, s, , x
- c. my, name, is, x,
- d. error

54) What will be the output of the following Python statement?

```
File Edit Format Run Options Window Help  
"abcd"[2:]
```

- a. a
- b. ab
- c. cd
- d. dc

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

```
File Edit Format Run Options Window Help  
example = "SYIT Python Programming"  
print(example.find("t"))
```

- a. Error
- b. 3
- c. 7
- d. 8

56) _____ is used to create an object.

- a. class
- b. constructor
- c. User-defined functions
- d. In-built functions

57) What is Instantiation in terms of OOP terminology?

- a. Deleting an instance of class
- b. Modifying an instance of class
- c. Copying an instance of class
- d. Creating an instance of class

58) Which of the following best describes inheritance?

- a. Ability of a class to derive members of another class as a part of its own definition

- b. Means of bundling instance variables and methods in order to restrict access to certain class members
 - c. Focuses on variables and passing of variables to functions
 - d. Allows for implementation of elegant software that is well designed and easily modified
- 59) Which of the following statements is wrong about inheritance?
- a. Protected members of a class can be inherited
 - b. The inheriting class is called a subclass
 - c. Private members of a class can be inherited and accessed
 - d. Inheritance is one of the features of OOP
- 60) What does built-in function help do in context of classes?
- a. Determines the object name of any value
 - b. Determines the class identifiers of any value
 - c. Determines class description of any built-in type
 - d. Determines class description of any user-defined built-in type
- 61) What does single-level inheritance mean?
- a. A subclass derives from a class which in turn derives from another class
 - b. A single superclass inherits from multiple subclasses
 - c. A single subclass derives from a single superclass
 - d. Multiple base classes inherit a single derived class
- 62) Which of the following best describes polymorphism?
- a. Ability of a class to derive members of another class as a part of its own definition
 - b. Means of bundling instance variables and methods in order to restrict access to certain class members
 - c. Focuses on variables and passing of variables to functions
 - d. Allows for objects of different types and behaviour to be treated as the same general type
- 63) What is the biggest reason for the use of polymorphism?
- a. It allows the programmer to think at a more abstract level
 - b. There is less program code to write
 - c. The program will have a more elegant design and will be easier to maintain and update
 - d. Program code takes up less space
- 64) Which of the following statements is true?
- a. A non-private method in a superclass can be overridden
 - b. A subclass method can be overridden by the superclass
 - c. A private method in a superclass can be overridden
 - d. Overriding isn't possible in Python
- 65) Which of the following is the most suitable definition for encapsulation?
- a. Ability of a class to derive members of another class as a part of its own definition
 - b. Means of bundling instance variables and methods in order to restrict access to certain class members
 - c. Focuses on variables and passing of variables to functions

d. Allows for implementation of elegant software that is well designed and easily modified

66) How many except statements can a try-except block have?

- a. zero
- b. one
- c. more than one
- d. more than zero

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

- a. always
- b. when an exception occurs
- c. when no exception occurs
- d. when an exception occurs in to except block

68) What happens when '1' == 1 is executed?

- a. we get a True
- b. we get a False
- c. an TypeError occurs
- d. a ValueError occurs

69) What will be the output of the following Python code?

```
File Edit Format Run Options Window Help
g = (i for i in range(5))
type(g)
```

- a. class <'loop'>
- b. class <'iteration'>
- c. class <'range'>
- d. class <'generator'>

70) What will be the output of the following Python code?

```
msnd.py - C:/Users/Admin/AppData/Local/Programs/Python/Python38-32/msnd.py (3.8.5)
File Edit Format Run Options Window Help
lst = [1, 2, 3]
print(lst[3])
```

- a. NameError
- b. ValueError
- c. IndexError
- d. TypeError

71) What will be the output of the following Python code?

```
int('65.43')
```

- a. ImportError
- b. ValueError
- c. TypeError
- d. NameError

72) Which of the following is clickable in GUI programming ?

- a. Button
- b. Checkbutton
- c. Lable
- d. a) and b)

73) Which of the following tool provides a GUI in python

- a. Numpy
- b. Tkinter
- c. Scipy
- d. Opencv

74) What is the output of the following code?

```
>>> list = ['a', 'b', 'c']
>>> list += 'de'
>>> print(list)
```

- a. ['a','b','c','d','e']
- b. ['abc','de']
- c. ['a','b','c','de']
- d. Error

75) For fetch the data, which function we use to run the select query ?

- a. fetch()
- b. rawquery()
- c. executequery()
- d. execute()

76) For what purpose sqlite3 is used ?

- a. Front end
- b. Back end
- c. CLI
- d. GUI

77) To open or connect with the database, which function we used or call at runtime ?

- a. open()
- b. connect()
- c. database()
- d. Cursor()

78) What is the correct statement about the RawQuery() function in sqlite3 in python ?

- a. It is used to fetch the row from the table
- b. It is used to execute the select query in the table
- c. It is undefined function in python sqlite3
- d. 1 and 2

79) What the following query does ?, select count(*) from table

- a. It return all rows data
- b. It return number of rows in table
- c. It return number of columns in table
- d. It will give an error

80) Which of the following function are used to execute the query in sqlite3 python ?

- a. execute()
- b. query()
- c. executequery()
- d. run()

81) Which of the following is correct syntax of the connect() function in sqlite3?

- a. sqlite.connect()
- b. sqlite.connect.database
- c. sqlite.connect(database)
- d. database.sqlite.connect()

82) Which of the following is not the function of the sqlite3 in python ?

- a. connect()
- b. close()
- c. execute()
- d. raw()

83) What will be the output of the following Python code?

```
tel) | on win32
Type "help", "copyrig
>>> range(6)
```

- a. range(6)
- b. range(0,6)
- c. range(0,1,2,3,4,5,6)
- d. range(0,1,2,3,4,5)

84) What will be the output of the following Python code?

```
>>> list(range(0,7))
```

- a. list(0,1,2,3,4,5,6,7)
- b. list(0,1,2,3,4,5,6)
- c. (0,1,2,3,4,5,6)
- d. [0,1,2,3,4,5,6]

85) What will be the output of the following Python code?

```
*untitled*
File Edit Format Run Options Window Help
for i in range(0, 5):
    if i==3:
        break
    print(i)
```

- a. 0,1,2,3,4,5
- b. 0,1,2
- c. 0,1,2,3
- d. 0,1,2,3,4

86) What will be the output of the following Python code?

```
as.py - C:/Users/Admin/AppData/Local/Programs/Python/Pytho
File Edit Format Run Options Window Help
for i in range(0, 5):
    if i==3:
        continue
    print(i)
```

- a. 0,1,2,3,4,5
- b. 0,1,2,4,5
- c. 0,1,2,4
- d. 0,1,2,3

87) What will be the output of the following Python code?

```
for i in range(0, 5):
    if i==3:
        pass
        print("the extra statement")
    print(i)
```

- a. 0,1,2,the extra statement,3,4
- b. 0,1,2,3,the extra statement,4
- c. 0,1,2,3,the extra statement,4,5
- d. 0,1,2,the extra statement,3,4,5

88) `str('2.456')` returns

- a. '2.456'
- b. "2.456"
- c. 2.45
- d. 2.456

89) What is the maximum possible length of an identifier?

- a. 31 characters
 - b. 63 characters
 - c. 79 characters
 - d. Can be any length
- 90) Which of the following is not a keyword?
- a. eval
 - b. assert
 - c. nonlocal
 - d. pass
- 91) Which of the following is an invalid variable?
- a. my_string_1
 - b. 1st_string
 - c. foo
 - d. _
- 92) Why are local variable names beginning with an underscore discouraged?
- a. they are used to indicate a private variables of a class
 - b. they confuse the interpreter
 - c. they are used to indicate global variables
 - d. they slow down execution
- 93) Which of the following is not a keyword?
- a. eval
 - b. assert
 - c. nonlocal
 - d. pass
- 94) Which of the following is true for variable names in Python?
- a. unlimited length
 - b. all private members must have leading and trailing underscores
 - c. underscore and ampersand are the only two special characters allowed
 - d. limited length
- 95) Which of the following is an invalid statement?
- a. abc = 1,000,000
 - b. a b c = 1000 2000 3000
 - c. a,b,c = 1000, 2000, 3000
 - d. a_b_c = 1,000,000
- 96) Which of the following cannot be a variable?
- a. __init__
 - b. in
 - c. it
 - d. on
- 97) Which of the following will run without errors?
- a. round(45.8)

- b. `round(6352.898,2,5)`
- c. `round()`
- d. `round(7463.123,2,1)`

98) What is the return type of function `id`?

- a. `int`
- b. `float`
- c. `bool`
- d. `dict`

99) Select all options that print.

hello-how-are-you

- a. `print('hello', 'how', 'are', 'you')`
- b. `print('hello', 'how', 'are', 'you' + '-' * 4)`
- c. `print('hello-' + 'how-are-you')`
- d. `print('hello' + '-' + 'how' + '-' + 'are' + 'you')`

100) `Config()` in Python Tkinter are used for

- a. destroy the widget
- b. place the widget
- c. change property of the widget
- d. configure the widget