

**BACHELOR OF COMPUTER APPLICATION
FIFTH SEMESTER (SPECIAL REPEAT)
PYTHON
BCA-503.3**

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

1. Which of the following method removes any whitespace from the beginning or the end in a string?

| | |
|------------|-------------|
| a. split() | b. format() |
| c. strip() | d. remove() |

2. Which of the following function returns a sequence of numbers?

| | |
|----------------|------------|
| a. getnumber() | b. range() |
| c. value() | d. for() |

3. Which keyword is use for function in Python?

| | |
|--------|-------------|
| a. def | b. define |
| c. fun | d. function |

4. Which of the following is true for default arguments?

| | |
|--|---|
| a. It should be provided with a default value in the function definition | b. When calling a function with a default argument, it can be omitted |
| c. Its value can be replaced with a new value when calling the function | d. All of the above |

5. What will be the possible output of the following Python code?
random.randrange(0,91,5)

| | |
|-------|-------|
| a. 18 | b. 54 |
| c. 10 | d. 91 |

6. Which of the following command is used to open a file "c:\temp.txt" in read-mode only?

| | |
|--|---|
| a. infile = open("c:\temp.txt", "r") | b. infile = open("c:\\temp.txt", "r") |
| c. infile = open(file = "c:\temp.txt", "r+") | d. infile = open(file = "c:\\temp.txt", "r+") |

7. Which of the following commands can be used to read "n" number of characters from a file using the file object <file>?

| | |
|--------------------|---------------------|
| a. file.read(n) | b. file.readline(n) |
| c. n = file.read() | d. file.readlines() |

8. Which of these definitions correctly describes a module?

| | |
|---|--|
| a. Denoted by triple quotes for providing the specification of certain program elements | b. Design and implementation of specific functionality to be incorporated into a program |
| c. Defines the specification of how it is to be used | d. Any program that reuses code |

9. What is the current syntax of rename() a file?
- rename(file_name)
 - rename(new_file_name, current_file_name)
 - rename(current_file_name, new_file_name)
 - None of the mentioned
10. Which of the following is not an advantage of using modules?
- Provides a means of reuse of program code
 - Provides a means of dividing up tasks
 - Provides a means of reducing the size of the program
 - Provides a means of testing individual parts of the program
11. Which one of the following is floor division?
- /
 - **
 - //
 - ^
12. What is the output of this expression, 4*2**3?
- 11
 - 24
 - 32
 - 40
13. What will be the output of following python code?
- ```
X=2
Y=10
X*=Y*X+1
print(X)
```
- 21
  - 41
  - 42
  - 60
14. Which of these is not a core data type?
- Lists
  - Dictionary
  - Tuples
  - Class
15. In order to store values in terms of key and value we use what core data type?
- Lists
  - Tuples
  - Class
  - None of the above
16. Which of the following commands will create a list?
- list1=list()
  - list1=[ ]
  - list1=(1,2,3,4,5)
  - All of the mentioned
17. Suppose list1 is [2, 33, 222, 14, 25], What is list1[:-1]?
- [33,222,14,25]
  - [14]
  - [2,33,222,14]
  - [2,33,222]
18. Which of the following statements is used to create an empty set?
- set()
  - ()
  - { }
  - [ ]
19. If a={5,6,7}, what happens when a.add(5) is executed?
- a={5,5,6,7}
  - a={5,6,7}
  - Error as there is no add function for set data type
  - Error as 5 already exists in the set

20. Suppose `d = {"John":40, "Sara":45}`, to delete the entry for "John" what command do we use?
- a. `d.delete("John":40)`
  - b. `d.delete("John")`
  - c. `del d["John"]`
  - d. `del d("John":40)`

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**( Descriptive )**

Time : 2 hr. 30 mins.

Marks : 50

[ Answer question no.1 & any four (4) from the rest ]

1. What is a python? What are the key features of Python? Explain the applications of python. 10
2. a) Explain the use of range() function in python with the help of an example. 4+3+3=10  
b) Explain list with a proper example.  
c) What are negative indexes and why are they used?
3. a) What is python exception? What are the built-in exceptions available in python? 4+4+2=10  
b) What are python modules? Explain the use of import statement.  
c) Write few basic differences between list and tuple.
4. a) Define set and dictionary. 2+5+3=10  
b) Explain union(), intersection() and difference() methods of set with example of each.  
c) Explain how we can remove item from dictionary.
5. a) Define python function. Explain different types of arguments which can be passed at the time of function call. 5+5=10  
b) How to open a file in python? What are the access modes available in python to open a file?
6. a) Write a code to sort a numerical list in Python. 3+4+3=10  
b) Explain different procedures to join two lists in python.  
c) Explain several methods to remove items from a list.
7. a) Explain the use of escape character in python with the help of an example. 3+4+3=10  
b) Write a python program to find the number of months and days from a user input number.  
c) Explain different decision making statements available in python with syntax of each.
8. a) What is python indentation explain with an example. 3+3+4=10  
b) How single line and multiple line comments are given in python?  
c) Explain how we can combine strings and numbers by using the format () method.

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