

Seat No. : \_\_\_\_\_

# MH-103

May-2022

BCA., Sem.-V

## CC-302 : Python Programming (New)

Time : 2 Hours]

[Max. Marks : 50

- Instructions :**
- (1) All questions in Section – I carry equal marks.
  - (2) Attempt any **TWO** questions in Section – I.
  - (3) Question – **5** in Section – II is COMPULSORY

### SECTION – I

1. (A) Explain the features of Python in detail and give differences between Java and Python. **10**  
(B) Explain the Arithmetic, Assignment, and Relational operators of Python with examples. **10**
2. (A) What is list in Python and explain the Concatenation, Repetition, Aliasing and Cloning of List in Python with examples. **10**  
(B) Explain Formal and Actual Arguments used in function with example in Python. Explain Function Decorators in Python. **10**
3. (A) Describe how to override super class constructors and methods in the sub class using super( ). **10**  
(B) Define Polymorphism in Python. Explain Duck Typing Philosophy of Python with example. **10**
4. (A) Explain steps to create a Virtual Environment – venv in Python. **10**  
(B) Define exception. List out and explain various types of built-in exceptions with appropriate examples. **10**

### SECTION – II

5. Answer the following MCQs : (Any **5 × 2** marks each) **10**
  - (1) In which language is Python written ?
    - (a) English
    - (b) PHP
    - (c) C
    - (d) All of the above
  - (2) Strings are sequences of characters and are \_\_\_\_\_.
    - (a) Mutable
    - (b) Immutable

- (3) User defined function uses \_\_\_\_\_ keyword.
- (a) #include (b) @def  
(c) def (d) \_init\_
- (4) \_\_\_\_\_ is not a python's predefined data type.
- (a) List (b) Tuple  
(c) Dictionary (d) Class
- (5) In python 3 what does // operator do ?
- (a) Float Division (b) Integer Division  
(c) Returns Remainder (d) Same as a\*\*b
- (6) In python which is the correct method to load a module ?
- (a) Include math (b) Import math  
(c) #include<math.h> (d) Using math
- (7) If any operator performs additional actions other than what it is meant for, it is called \_\_\_\_\_.
- (a) operator overriding (b) operator inheritance  
(c) overriding of method (d) operator overloading
- (8) Concatenation of strings can be done using '+' operator of \_\_\_\_\_ method.
- (a) pop( ) (b) join( )  
(c) remove( ) (d) append( )
- (9) What will the output of following program ?
- ```
tuple = (1, 2, 3, 4)
tuple.appendf((5, 6, 7))
print(len(my_tuple))
```
- (a) 1 (b) 2  
(c) 5 (d) Error
- (10) \_\_\_\_\_ will display all of the packages installed in the virtual environment.
- (a) viv (b) pip  
(c) dip (d) vip
- (11) The specialty of \_\_\_\_\_ block is that the statements inside it, are executed irrespective of whether there is an exception or not.
- (a) try (b) except  
(c) final (d) finally
- (12) Python provides a performance measurement tool that answers questions immediately. The \_\_\_\_\_ measures execution time of small code snippets.
- (a) pstats (b) profile  
(c) Timer (d) timeit