

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

# DB-103

December-2020

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 Memory Management and Garbage collection in Python. **10**  
(B) Explain operator overloading with a suitable example. Also list out magic methods. **10**
2. (A) Write a note on the execution of the program in Python using PVM. **10**  
(B) Describe how to override super class constructors and methods in the sub-class using super(). **10**
3. (A) Write a note on indexing and slicing on Arrays. **10**  
(B) Explain steps to create a virtual environment- venv in Python. **10**
4. (A) List all and explain any three methods to process lists in Python. **10**  
(B) Describe connection and cursor objects with their methods and parameters to establish Python connection with MySQL database. **10**

### SECTION – II

5. Answer the following MCQs (Any  $5 \times 2$  marks each) **10**
  - (1) For tuples and list \_\_\_\_\_ is correct ?
    - (a) List and tuples both are mutable
    - (b) List is mutable whereas tuples are immutable
    - (c) List and tuples both are immutable
    - (d) List is immutable whereas tuples are mutable.
  - (2) \_\_\_\_\_ is not a python's predefined data type.
    - (a) List
    - (b) Tuple
    - (c) Dictionary
    - (d) Class

- (3) In python 3 what does // operator do ?
- (a) Float Division
  - (b) Integer Division
  - (c) Returns Remainder
  - (d) Same as (a) and (b)
- (4) In python, which is the correct method to load a module ?
- (a) Include math
  - (b) Import math
  - (c) #include <math.h>
  - (d) Using math
- (5) 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
- (6) We cannot declare variables, we have written the variables inside a special method, called
- (a) def()
  - (b) super()
  - (c) \_init\_()
  - (d) \_init\_()
- (7) What will be the output of following program ?
- ```
tuple = (1, 2, 3, 4)  
tuple. append( (5, 6, 7) )  
print(len(my_tuple))
```
- (a) 1
  - (b) 2
  - (c) 5
  - (d) Error
- (8) Concatenation of strings can be done using '+' operator of \_\_\_\_\_ method.
- (a) pop()
  - (b) join()
  - (c) remove()
  - (d) append()
- (9) 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
- (10) 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
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Seat No. : \_\_\_\_\_

# DB-103

December-2020

BCA, Sem.-V

## CC-302 : Advanced Visual and Windows Programming (Old)

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) What is Constructor ? Explain different types of Constructor with example. **10**  
(B) Explain Structured and Unstructured Handling in detail **10**
2. (A) Explain Trackbar with its properties and event. Also state how Trackbar is different from Scrollbar control. **10**  
(B) Explain Treeview control with its properties, methods and event. **10**
3. (A) What is Collection ? Explain the Array Collection with properties . **10**  
(B) Explain Directory and DirectoryInfo class with example. **10**
4. (A) Explain ADO.Net with its components. **10**  
(B) Explain DataSet class. State the use of crystal Report. **10**

### SECTION – II

5. DO as directed (Any 5 × 2 marks each). **10**
  - (i) \_\_\_\_\_ is the property of Timer Control.
    - (1) TimeSecone
    - (2) Interval
    - (3) TimeInterval
    - (4) TickTime
  - (ii) classview shows \_\_\_\_\_
    - (1) All files used in application
    - (2) All elements of an application
    - (3) Inherited objects in application
    - (4) Allows viewing only classes defined in application

- (iii) \_\_\_\_\_ keyword is used to define abstract class.
- (1) Abstract (2) MustInherit  
(3) MustOverride (4) Override
- (iv) Which ado.net class provide disconnected environment ?
- (1) DataReader (2) DataSet  
(3) Command (4) None of the above
- (v) Startswith method of string returns \_\_\_\_\_ value.
- (1) Integer (2) Boolean  
(3) Bit (4) Number
- (vi) Richtextbox is \_\_\_\_\_ by default.
- (1) Zero Line (2) One Line  
(3) Two Line (4) Multi Line
- (vii) Allowsorting is the property of \_\_\_\_\_ control.
- (1) Trackbar (2) DateTimePicker  
(3) Treeview (4) DataGridView
- (viii) It is mandatory to create object of FileInfo class
- (1) True (2) False
- (ix) To use Input Output functions \_\_\_\_\_ namespace is used.
- (1) System.InputOutput (2) System.Text.IO  
(3) System.IO (4) System.Text
- (x) Dataset is populated using \_\_\_\_\_ method of DataAdapter.
- (1) Update (2) Edit  
(3) Fill (4) Move
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