

B.C.A Semester - 5 (Remedial) (CBCS) Examination**March/April-2024 (NEW COURSE)****Basic Python(Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que-1(A) Attempt following questions. (03)
- (1) _____ character is used to set comment in Python.
 - (2) tuple is immutable data type in Python. (True / False)
 - (3) $A = 29 // 3$ then A initialize with _____ value
- Que-1(B) Attempt following. (Attempt any two) (06)
- (1) Explain features of Python.
 - (2) Explain for loop with an example.
 - (3) Explain types of Literals available in Python.
 - (4) Explain if else conditional statement with an example.
- Que-1(C) Attempt following. (Attempt any one) (05)
- (1) Explain data types available in Python.
 - (2) Explain types of operators supported by Python.
- Que-2(A) Attempt following questions. (03)
- (1) $Obj = [10, 20, 30, 40, 50]$ then Obj is a object of _____ type in Python.
 - (2) In dictionary, key and value separated using _____ sign.
 - (3) $Obj = 1, 2, 3, 4, 5$ then Obj is a object of _____ type in Python.
- Que-2(B) Attempt following. (Attempt any two) (06)
- (1) Explain `open()` function with all file opening modes.
 - (2) Explain `read()` and `readline()` method of file object.
 - (3) What is slicing? Explain tuple slicing with an example.
 - (4) Explain `write()` and `writelines()` method of file object.
- Que-2(C) Attempt following. (Attempt any one) (05)
- (1) Write a short note on Python dictionary
 - (2) Explain Python List collection in detail.
- Que-3(A) Attempt following questions. (03)
- (1) A Class is a blueprint for the Object. (True / False)
 - (2) _____ parameter must pass in every member function in class.
 - (3) The _____ method is a known as a destructor method in Python.
- Que-3(B) Attempt following. (Attempt any two) (06)
- (1) What is class? How to define class in python? Explain with an example.
 - (2) What is Constructor? Explain constructor with an example.
 - (3) What is Destructor? Explain destructor with an example.
 - (4) Explain linear search with an example.
- Que-3(C) Attempt following. (Attempt any one) (05)
- (1) What is an exception? Explain exception handling in Python.
 - (2) What is inheritance? Explain types of inheritance in detail.
- Que-4(A) Attempt following questions. (03)
- (1) The module _____ provides full support for regular expressions in Python.
 - (2) JSON stands for _____.
 - (3) _____ function convert JSON file to Dictionary type in Python.

- Que-4(B) Attempt following. (Attempt any two) (06)
- (1) Write a Python script which is read data from CSV file.
 - (2) Explain `json_load( )` and `json_loads( )` methods in Python.
 - (3) List out special character class available in regular expression.
 - (4) Explain `reader( )` and `writer( )` methods of CSV in Python.
- Que-4(C) Attempt following. (Attempt any one) (05)
- (1) What is JSON? Explain `JSONEncoder` and `JSONDecoder` class.
 - (2) Explain Regular Expression functions in detail.
- Que-5(A) Attempt following questions. (03)
- (1) _____ object support `cursor( )` method to create cursor object in Python.
 - (2) The ____ method will return the first row of the result set available in cursor object.
 - (3) When we run any query then we use _____ method of cursor object.
- Que-5(B) Attempt following. (Attempt any two) (06)
- (1) Explain `connect( )` function of `mysql.connector` Module.
 - (2) How to create table in database using Python script.
 - (3) Explain `fetchone( )` and `fetchall( )` method.
 - (4) Explain `cursor( )` method of connection object.
- Que-5(C) Attempt following. (Attempt any one) (05)
- (1) How to execute Inner join using Python Script?
 - (2) Explain `execute( )` and `executemany( )` method with an example.
