

B.C.A Semester - 5 (Remedial) (CBCS) Examination**March/April-2025 (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) _____ statement terminate current executable loop.
 - (2) $A = 100 \% 8$ then A initialize with _____ value.
 - (3) $X = 5^{**}4$ then X initialize with _____ value.
- Que-1(B) Attempt following. (Attempt any two) (06)
- (1) Explain input() and print() function in Python.
 - (2) Explain while loop with an example.
 - (3) Explain break and continue statement with example.
 - (4) Explain types of operators available in Python.
- Que-1(C) Attempt following. (Attempt any one) (05)
- (1) How to create user define function in python? Explain with an example.
 - (2) Explain data types supported by Python.
- Que-2(A) Attempt following questions. (03)
- (1) The file is by default open in _____ mode if no access mode is passed within open() function.
 - (2) _____ function returns the current position of the file pointer within the file.
 - (3) In dictionary, key and value separated using _____ sign.
- Que-2(B) Attempt following. (Attempt any two) (06)
- (1) Explain tell() and seek() function in file handling.
 - (2) Explain read() and readline() method of file object.
 - (3) Write a python code to make a copy of hello.txt file into hello123.txt file.
 - (4) Explain open() function with all file opening mode.
- Que-2(C) Attempt following.(Attempt any one) (05)
- (1) Explain any five String methods with an example.
 - (2) Explain any five List methods with an example.
- Que-3(A) Attempt following questions. (03)
- (1) Hiding the private details of a class from other objects is called _____.
 - (2) _____ parameter must pass in every member function in class.
 - (3) Every class constructor's name is same in Python. (True / False).
- Que-3(B) Attempt following. (Attempt any two) (06)
- (1) Explain assert statement with an example.
 - (2) What is Inheritance? List out types of inheritance.
 - (3) Explain constructor with an example.
 - (4) Explain an algorithm of bubble sort.

- Que-3(C) Attempt following.(Attempt any one) (05)
- (1) What is an exception? Explain exception handling in Python.
 - (2) Explain Binary search with an example.
- Que-4(A) Attempt following questions. (03)
- (1) CSV stands for _____.
 - (2) JSON stands for _____.
 - (3) _____ method is used to write data in JSON file.
- Que-4(B) Attempt following. (Attempt any two) (06)
- (1) List out special character class available in regular expression.
 - (2) Differentiate Search V/S Match function.
 - (3) Explain DOM API in Python.
 - (4) Explain sub() and findall() method of regular expression with an example.
- Que-4(C) Attempt following.(Attempt any one) (05)
- (1) Explain CSV reader() and writer() method with an example.
 - (2) Explain JSONEncoder and JSONDecoder class.
- Que-5(A) Attempt following questions. (03)
- (1) mysql.connector.connect() function take _____ maximum parameters.
 - (2) _____ object support execute() method to execute query in mysql.
 - (3) When we insert multiple row through connection, then we use executemany() method. (True/False).
- Que-5(B) Attempt following. (Attempt any two) (06)
- (1) Explain fetchall() and fetchone() method.
 - (2) Explain cursor() method of connection object in python.
 - (3) How to create database in mysql through Python script?
 - (4) Explain mysql.connector module in detail.
- Que-5(C) Attempt following. (Attempt any one) (05)
- (1) To write a Python code to perform insert operation on table “stud” with following attributes.
Attributes: grno, sname, dob, address,city
 - (2) Explain execute() and executemany() method.
