

B.C.A Semester - 5 (Remedial) (CBCS) Examination**March/April-2026 (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. _____ function return data type of variable in Python.
 2. _____ is a special literal available in Python.
 3. _____ symbol is useful to put comment in Python file.
- Que.1(B) Attempt following. (Attempt any two) (06)
1. Explain if and if else statement with example.
 2. Explain for loop with an example.
 3. Explain break and continue statement with example.
 4. Explain types of literals available in Python.
- Que.1(C) Attempt following. (Attempt any one) (05)
1. Explain data types supported by Python.
 2. Write note on Python Modules.
- Que.2(A) Attempt following questions. (03)
1. tuple data type is a immutable data type in Python. (True / False)
 2. The file is by default open in _____ mode if no access mode is passed within open() function.
 3. In dictionary, key and value separated using _____ sign.
- Que.2(B) Attempt following. (Attempt any two) (06)
1. Write a python code to make a copy of contact.txt file into contact1.txt file.
 2. Explain open() function with all file opening mode.
 3. Explain tell() and seek() function in file handling.
 4. Explain slicing operator in string and list object with example.
- Que.2(C) Attempt following.(Attempt any one) (05)
1. Explain any five List methods with an example.
 2. Explain any five Set methods with an example.
- Que.3(A) Attempt following questions. (03)
1. Linear Search is also called as _____ search.
 2. Binary Search always implement on sorted data. (True / False)
 3. When we need to get resource from existing class then we use _____.
- Que.3(B) Attempt following. (Attempt any two) (06)
1. What is Encapsulation? Explain with an example.
 2. Explain an algorithm of Linear Search.
 3. Explain assert statement with an example.
 4. Explain an algorithm of Selection sort.
- Que.3(C) Attempt following.(Attempt any one) (05)
1. Explain type of Inheritance with an example.
 2. Write short note on Hashtable.

- Que.4(A) Attempt following questions. (03)
1. _____ method is used to write data in JSON file.
 2. _____ special character match whitespace character in regular expression.
 3. _____ special character match decimal digit in regular expression.
- Que.4(B) Attempt following. (Attempt any two) (06)
1. List out special character class available in regular expression.
 2. Explain findall() and split() functions in regular expression.
 3. Explain csv.reader() and csv.writer() method with an example.
 4. Explain match() and sub() method of regular expression with an example.
- Que.4(C) Attempt following.(Attempt any one) (05)
1. Write code to read data from xml file.
 2. Explain json.load() and json.dump() function with an example.
- Que.5(A) Attempt following questions. (03)
1. Which package require to make connection between python and mysql database.
 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 connect() method with example
 3. How to retrieve databases name from mysql through Python script?
 4. Explain execute() and executemany() method.
- Que.5(C) Attempt following. (Attempt any one) (05)
1. To write a Python code to perform insert operation on table “student”
Student table attributes.
Attributes: seatno, sname, contact, address, city
 2. To write a Python code which is perform update operation on above table.
