

B.C.A Semester - 5 (CBCS) Examination**Oct/Nov - 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 the following. (03)
- 1) In Python Input () function convert the entered value in _____ datatype.
 - 2) IDLE stands for _____.
 - 3) A comment in a Python starts with _____ character.
- Que. 1 (B) Attempt the following. (Any two) (06)
- 1) Explain data types available in Python.
 - 2) Explain Python conditional statement.
 - 3) Write features of Python.
 - 4) Explain while loop with break and continue.
- Que. 1 (C) Attempt the following. (Any one) (05)
- 1) Explain Python Module with example.
 - 2) Explain Python functions in detail.
- Que. 2 (A) Attempt the following. (03)
- 1) In Python we can assign a multiline string to a variable using _____ quotes.
 - 2) In Python dictionaries are written with _____ brackets.
 - 3) When any file is open using open () function its default mode is _____.
- Que. 2 (B) Attempt the following. (Any two) (06)
- 1) Explain format () with example.
 - 2) Write short note on Python tuple.
 - 3) Explain any three methods of Python sets with example.
 - 4) Explain various methods used to remove items from dictionary.
- Que. 2 (C) Attempt the following. (Any one) (05)
- 1) Explain Python List.
 - 2) Explain File handling in Python.
- Que. 3 (A) Attempt the following. (03)
- 1) The _____ block will be executed regardless if the try block raises an error or not.
 - 2) To avoid getting an error _____ statement used when a class definition have no content.
 - 3) List out various sorting algorithms.
- Que. 3 (B) Attempt the following. (Any two) (06)
- 1) Explain inheritance in detail.
 - 2) What is Assertion? Discuss assert statement with example.
 - 3) Explain Hashtable.
 - 4) Explain an algorithm of selection sort.
- Que. 3 (C) Attempt the following. (Any one) (05)
- 1) Explain exception handling in Python.
 - 2) List various searching algorithm in Python. Explain any one.

- Que. 4 (A) Attempt the following. (03)
- 1) CSV stands for _____
 - 2) JSON stands for _____
 - 3) Which module is used to import regular expression?
- Que. 4 (B) Attempt the following (Any two) (06)
- 1) What is regular expression? Discuss sets used with it.
 - 2) Explain search () function with example.
 - 3) Explain sub () function.
 - 4) Explain json.load() and json.dump()
- Que. 4 (C) Attempt the following (Any one) (05)
- 1) How can we read and write CSV files in Python?
 - 2) Explain Python XML module in detail.
- Que. 5 (A) Attempt the following. (03)
- 1) Which function is used to create database connection with MySQL in Python?
 - 2) To create a database in MySQL _____ statement is used.
 - 3) _____ method is used to create cursor object.
- Que. 5 (B) Attempt the following. (Any two) (06)
- 1) Explain join operation with example.
 - 2) Write steps to install MySQL.
 - 3) How to create new table in MySQL using Python?
 - 4) How to create database in MySQL?
- Que. 5 (C) Attempt the following. (Any one) (05)
- 1) Explain properties and methods of cursor class.
 - 2) Write a code to insert records in student table and read these records.
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