

BCA5PytC270x
B.C.A Semester - 5 (CBCS) Examination
Oct/Nov - 2024 (NEW COURSE)
Basic Python(Core)

Seat No : _____

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. Python uses indentation to indicate a block of code (True/False)
2. Which keyword is use to create global variable inside a function?
3. Python uses _____ function to check the type of variable.

Que-1(B) Attempt the following (Any two) (06)

1. Explain operators available in Python.
2. Explain input and output in Python.
3. Explain for loop in Python.
4. Explain user define function in Python

Que-1(C) Attempt the following (Any one) (05)

1. Explain Python data types.
2. What is module? Explain Python module.

Que-2(A) Attempt the following. (03)

1. In Python 'hello' is same as "hello" (True/False)
2. In Python lists are written with _____ brackets.
3. To add one item to a set, use the _____ method.

Que-2(B) Attempt the following (Any two) (06)

1. Explain any three string methods available in Python.
2. Discuss different methods used to remove items from a list.
3. Explain tuple in Python.
4. Write a note on set in Python.

Que-2(C) Attempt the following (Any one) (05)

1. Explain File handling in Python.
2. Write a note on dictionary in Python.

Que-3(A) Attempt the following. (03)

1. In Python _____ keyword is used to raise an exception by user.
2. _____ sort first divides the array into equal halves and then combine them in sorted manner.
3. To define a private member prefix the member's name with _____

Que-3(B) Attempt the following (Any two) (06)

1. What is class and object? How can we create it in Python?
2. Discuss abstract class in Python.
3. Explain exception handling in Python.
4. Explain bubble sorting algorithm in Python.

- Que-3(C) Attempt the following (Any one) (05)**
1. Explain inheritance in Python.
 2. List various searching algorithm in Python. Discuss any one with example.
- Que-4(A) Attempt the following. (03)**
1. ____ module can be used to work with regular expressions.
 2. CSV stands for_____
 3. JSON stands for_____
- Que-4(B) Attempt the following (Any two) (06)**
1. What is regular expression? Discuss metacharacters.
 2. Explain match() with example.
 3. Explain json.load() and json.dump()
 4. Discuss split() and sub()
- Que-4(C) Attempt the following (Any one) (05)**
1. Explain how can we read and write CSV files in Python.
 2. Explain XML parsing using minidom.
- Que-5(A) Attempt the following. (03)**
1. To create a database in MySQL use_____ statement.
 2. ____ function is used to create database connection with MySQL in Python.
 3. ____ statement is used to listing all database stored in system.
- Que-5(B) Attempt the following (Any two) (06)**
1. Discuss various methods provided by the cursor class.
 2. Explain join operation with example.
 3. How to create database in MySQL using Python?
 4. How to create table in MySQL using Python.
- Que-5(C) Attempt the following (Any one) (05)**
1. Explain Python MySQL transactions.
 2. Write a code to insert and read records from employee table.
