



K23P 3463

Reg. No. : .....

Name : .....

I Semester M.C.A. Degree (C.B.S.S.-Reg./Supple./Imp.)  
Examination, November 2023  
(2020 Admission Onwards)  
MCA1C03 : PYTHON PROGRAMMING

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer **all** questions. **Each** question carries **two** marks.

1. How does PYTHONPATH variable impact the way Python locates and accesses modules and packages ?
2. List any two built-in functions used to read data from standard input.
3. What is a slice operator ?
4. What is the significance of try and except block ?
5. What is the use of function-zip() ?
6. What are the characteristics of set in Python ?
7. How do you convert an object in Python into a character stream ?
8. Create class STUDENT in Python with data attributes admn\_no, name, age and functions allotment() and gradeCalculate().
9. What is Python GUI ?
10. Define :
  - i) syntax errors
  - ii) logical errors.

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SECTION – B

Answer **all** questions. **Each** question carries **eight** marks.

11. a) Briefly explain features of Python programming.

OR

b) Explain naming conventions for Python identifiers. Give examples for valid and invalid identifiers.

12. a) What are the steps involved in creating a function within Python programming ?

OR

b) What is the significance of classes and objects in facilitating object-oriented programming in Python ?

13. a) Differentiate between tuples and lists in Python.

OR

b) Explain dictionary methods in Python.

14. a) Explain various built-in class attributes available in Python.

OR

b) What are method overloading and operator overloading ?

15. a) Explain the role of exception handler in Python.

OR

b) Explain frame widget in Python GUI.

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