



K21P 0848

Reg. No. : .....

Name : .....

**I Semester M.C.A. Degree (C.B.S.S. – Regular) Examination, November 2020  
(2020 Admission)  
MCA1C03 : PYTHON PROGRAMMING**

Time : 3 Hours

Max. Marks : 60

**SECTION – A**

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

1. Briefly explain the advantages of Jupyter Notebook.
2. Differentiate Fundamental and collection data types in Python.
3. Discuss elif statement in Python with an example.
4. Why would you use a try-except statement in a program ?
5. Discuss the advantages of the list in Python.
6. Differentiate pop() and remove() methods in list.
7. Discuss the usage of tuples in Python with an example.
8. With an example, explain the methods associated with sets Python.
9. Discuss different file mode operations in Python with examples.
10. Briefly explain encapsulation with an example.

**SECTION – B**

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

11. a) Explain any three decision making statements in Python with suitable example.

OR

- b) Explain different Operators in Python with examples.

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12. a) Explain the syntax of the try-except-finally block with an example.

OR

b) Explain the syntax of while loop. Write a program that uses a while loop to add up all the odd numbers and even numbers between any two numbers given by the user.

13. a) What is a Function and explain its advantages. Explain with syntax how to create a user-defined functions and how to call the user-defined function from the main function with an example.

OR

b) Write a program that creates a list of 10 random integers. Then create two lists by name odd\_list and even\_list that have all odd and even values of the list respectively.

14. a) Describe with an example how to read and write to a text file and copy the content of one file to another.

OR

b) Describe with an example how to read and write to a binary file and copy the content of one file to another.

15. a) Write a program that takes a range and creates a list of tuples within that range with the first element as the number and the second element as the square of the number.

OR

b) Write a program that prompts the user to enter a text filename and displays the number of vowels and consonants in the file.