S.No. : 169 BCA 3401

No. of Printed Pages : 03

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 31122 Roll No.

B. C. A. Examination 2021-22

(Even Semester)

BASICS OF PYTHON PROGRAMMING

Time : Three Hours] *[Maximum Marks : 60*

Note :– Attempt all questions.

SECTION–A

1. Attempt all parts of the following : $8 \times 1 = 8$

   (a) Why python is an interpreted language?

   (b) What is pass in python?

   (c) What do you understand by python literals?

   (d) What is slicing in python?

   (e) Define negative index.

   (f) How can you concatenate two tuples?

   (g) Conver a string into lower case.

[P. T. O.

(h) Define lstrip () and rstrip () function.

SECTION – B

2. Attempt any two parts of the following : $6 \times 2 = 12$

(a) Find the area and perimeter of a circle using function. Prompt the user for input.

(b) Define the is and is not operators. Also describe that why python is called as dynamic typed language?

(c) Discuss built-in datatypes available in python.

(d) What are the different ways to insert an element in a list. Explain with example.

SECTION – C

Note:- Attempt any two parts of the following. Each part carry equal marks. $8 \times 5 = 40$

3. (a) Write a program to display the fibonacci sequences upto n^{th} term where n is provided by the user.

(b) Explain break and continue statements with suitable program (output also)

(c) Discuss operator precedence along with example.

4. (a) What is nested loops? Explain with example.

(b) Explain random module and its functions.

(c) What is the difference between simple and compound statements? Explain.

5. (a) Define string. Explain some built-in functions of string and show string slicing with step size with the help of an example.

(b) Write a python program to take a string from user and court number of vowel present in it.

(c) Define '+', '*" and 'in' operators used in string and perform the string comparision with comparision operator.

6. (a) Explain the necessity and importance of list in programming languages.

(b) Define four inbuilt functions for lists and tuple with example.

(c) Write a program to print and store squares of numbers into a dictionary.

⌘⌘⌘