

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

PAPER ID : 31122Roll
No.

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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.

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- (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 count number of vowel present in it.
(c) Define '+', '*' and 'in' operators used in string and perform the string comparison with comparison 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.

