S.No.: 70

BCA 4401

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

PAPER ID: 41115

No.

BCA Examination 2023-24

(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) Define python tokens with its type.
- Write one difference between python 2 and python 3.
- What are the different parameters a range () function can take?
- What is user defined function? Give syntax of a user defined function.

What is difference between isalnum () and is alpha () string function?

- Un Describe negative test indices used for accessing list elements.
- How will be you create a string using constructors of the str class?
- LON Define python dictionary.

SECTION-B

- Attempt any two parts of the following:
 - Describe different loop statement in python also describe continue, break and bars keywords use in loop.
 - Write a program to display the number of a series 1, 4, 9, 16, 25,n by using for loop.
 - What is meant by immutable string? What is the (c) use of slicing operator in string?
 - Differentaite between set and dictionary with suitable example.

SECTION-C

- Note :- Attempt all questions. Attempt any two parts from each questions. 8×5=40
- Write a program to read a 4-digit number from user and calculate the sum of its digits.
 - (16) What are operators in python? What are the use of operator precedence in evaluating expressions?
- (c) State the differences between interactive and scripting mode of python.
- Write a program to input year and check if it is a leap year.
- Define module. Illustrate the use of math module with suitable example.
- What are arguments? How are arguments passed to a function?
- What is a strting? Explain slice operation with
- Write a function that finds the number of occurrences of a specified character in a string.

- How can all the elements of a string be traversed using the white loop?
- 6. (a) How is list created? Explain different ways to create a list with suitable examaple.
 - (b) Differentaite between pop () and remove () method of list with example.
 - Crate a list containing three elements and then create a tuple from that list.