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BCA 4401

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

PAPER ID : 41115 Roll No. [redacted]

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 : 8×1=8

(a) Define python tokens with its type.

(b) Write one difference between python 2 and python 3.

(c) What are the different parameters a range ( ) function can take?

(d) What is user defined function? Give syntax of a user defined function.

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

(f) Describe negative test indices used for accessing list elements.

(g) How will be you create a string using constructors of the str class?

(h) Define python dictionary.

SECTION – B

2. Attempt any two parts of the following : 2×6=12

(a) Describe different loop statement in python also describe continue, break and bars keywords use in loop.

(b) Write a program to display the number of a series 1, 4, 9, 16, 25, ...n by using for loop.

(c) What is meant by immutable string? What is the use of slicing operator in string?

(d) Differentaite between set and dictionary with suitable example.

SECTION – C

Note :– Attempt all questions. Attempt any two parts from each questions. 8×5=40

3. (a) Write a program to read a 4-digit number from user and calculate the sum of its digits.

(b) 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.

4. (a) Write a program to input year and check if it is a leap year.

(b) Define module. Illustrate the use of math module with suitable example.

(c) What are arguments? How are arguments passed to a function?

5. (a) What is a strting? Explain slice operation with example.

(b) Write a function that finds the number of occurrences of a specified character in a string.

(c) 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 exa*maple*.

(b) Differentaite between pop ( ) and remove ( ) method of list with example.

(c) Crate a list containing three elements and then create a tuple from that list.

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