REGN NO.: 1 3 9 4 4 2 0 LEVEL: O

O-PR-S34

M3_R5(Programming and Problem Solving through Python)
BATCH: S34

Q.1 Write a function with name 'dividebyfive' which generates and prints a random integer number from the range 0 to 100 and then returns 'True' if the randomly generated number is divisible by 5, and 'False' otherwise.

(25)

Q.2 Create a numpy array having two dimensions and shape (3,3) and perform the following operations on array elements:

a. Calculate sum of all the columns of the array.
b. Calculate product of all the rows of the array.
c. Retrieve only the last two columns and last two rows from the array.
d. Create another two dimensional array having same shape and carry out element wise addition of two arrays and display the result.
e. Create a new array by multiplying every element of original array with value 2 and display the new array

(25)

Q.3 Write a program to find intersection of two arrays?

For Example. Sample input: arr1[] = [1, 3, 4, 5, 7]; arr2[] = [2, 3, 5, 6] the intersection is [3,5]

(30)