# **Introduction to Python – Exam**

**Total marks : 30 marks**

**Section A : 2 Mark Questions : 2 \* 4 = 8 Marks**

1. List the difference between Tuple and List ?
2. What is a dictionary in Python and write a syntax to create a dictionary ?
3. For the give List, print all the elements in reverse without the keyword reverse.

Lst = [ 10,20,30,40]

1. Write a code to print the current system date ?

**Section B : 3 Marks Questions 5 \* 3 = 15 Marks**

1. Write a Python program to find those numbers which are divisible by 7 and multiple of 5, between 1500 and 2700 (both included).

**Desired output :**

1505,1540,1575,1610,1645,1680,1715,1750,1785,1820,1855,1890,1925,1960,1995,2030,2065,2100,2135,2170,2205,2240,

2275,2310,2345,2380,2415,2450,2485,2520,2555,2590,2625,2660,2695

1. Get sum of squares of all even and odd numbers between 334 and 667 (include both) in separate list.
2. Create a 3 column array with variables ‘Item’ with string datatype, ‘Count’ – int datatype, ‘Amount’ – float datatype.

Load 4 records with sample data—vegetable,3,454.2; almond,15,762.1; cake,5,200; cashew,20,1400.4

i) Display all the data

ii) Display only the ‘Count’ column

iii) Display only the first 2 values of the ‘Count’ column

1. Calculate sum of 30 natural numbers using while loop (output: 465). Allow only if the loop is positive else throw an error
2. Check if the run time input value is a prime number or not

**7 marks : 1 \* 7 = 7 marks**

**Step 1 :**

Created a nested dictionary with 2 records with below data and do data slice to get name, age and gender alone in each statement

Name : john

Age 27

Sex – male

Ans :

Name : Marie

Age 22

Sex – female

**Step 2 :** add 3 rd element to the nest dictionary

name : Luna

age = 34

gender = female

**Step** 3 : Add an element from the nested dictionary

Luna , married - no

Peter.29,male, married - yes

**Step 4 :**

**Delete the element 3 which is married from the nested dict**

**Step 5 :**

**How to delete the dictionary from the nested dict**

**Step 6 :**

**Iterate through nested dic and get the output in the below format**

Person ID: 1

Name: John

Age: 27

Sex: Male

Person ID: 2

Name: Marie

Age: 22

Sex: Female