Gurudas College

Semester 5 (HONS)

Internal Assessment 2021

Sub: DSE-B-2

Full marks:30

1+3+2

Time: 1 hour

Answer Question 1 and any four from Question 2 to 9		
1.	 Answer any 4 questions: (4*1.5) a. What is the difference between list and tuples in Python? b. Python an interpreted language. Explain. c. What does [::-1] do? d. How can you randomize the items of a list in place in Python? e. What are the built-in types of python? f. What is map function in Python? g. What is PEP 8 and why is it important? 	
2.	a. Describe some key features of Python. b. What is type conversion in Python? Give examples	3+3
3.	 a. How can you generate random numbers in Python? b. Accept a list of names from the user. Write a program in Python that will pring names from the list randomly. 	2+4 t the
4.	a. What is lambda in Python? Why is it used? b. What is pass in Python?	4+2
5.	a. What is list comprehension? How do we generate integer numbers in a list using comprehension by accepting all the numbers using split() function?	ng list 3
	b. Write a program in Python that will find prime numbers between 1 and 100 us comprehension format only.	ing list 3
6.	a. What is the difference shallow and deep copy? Give an example to show the db. How do you copy an object in Python?	ifference 4+2
7.	a. Write a Python program to unzip a list of tuples into individual lists. b. Give an example to describe the function of find(), ljust(), remove(), reversed()	2+4).
8.	. Write a program in Python to verify whether the entered input is a number or no	t.
9.	. a. How to create singleton tuple? Also mention the different ways we can repres	6 sent it.

b. Differentiate between packing and unpacking of tuples.

c. What is the use of * operator in range() function?