P P SAVANI UNIVERSITY

Third Semester of B.Sc. (IT) Examination December 2021

SSIT2020 Programming with Python

10/12/2021, Friday

1. The question paper comprises of two sections.

4. Use of scientific calculator is allowed.

Section I and II must be attempted in separate answer sheets.
 Make suitable assumptions and draw neat figures wherever required.

Instructions:

Time: 09:00 a.m. To 11:30 a.m.

Maximum Marks: 60

	SECTION - I	
Q-1	Answer the Following. (Any five)	[05]
(i)	+ operator has highest precedence. State true or false.	
(ii)	What is the output of print(2 ** 3 ** 2)?	
(iii)	Whatever you enter as input, the input() function converts it into a string. State true or false.	
(iv)	Tuple is immutable. State true or false.	
(v)	print(type('5')) returns	
(vi)	5//2 = 2.5. State true or false.	
Q - 2 (a)	Explain for-else with an example.	[05]
Q-2(b)	Write a python program to make a simple calculator for given inputs. OR	[05]
Q-2(a)	What is the difference between pass and continue? Explain with example.	[05]
Q-2(b)	Explain the uses of range operation in python with an example.	[05]
Q - 3 (a)	What is dictionary in Python? Explain with example.	[05]
Q-3(b)	Write a short note on NumPy array.	[05]
	OR	
Q-3(a)	What is a list in Python? Explain with example.	[05]
Q-3(b)	Differentiate between delete(), remove() and pop() in lists and tuples.	[05]
Q-4	Attempt any one.	[05]
(i)	What are the advantages and disadvantages of array?	
(ii)	Explain str() and len() with examples.	
	SECTION - II	
Q-1	Answer the Following. (Any five)	[05]
(i)	What are the two main types of functions in Python?	
	a) System function	
	b) Custom function	
	c) Built-in function & User defined function	
	d) User function	
(ii)	Which statement is correct to import all modules from the package?	
	a)from package import all	
	b)from package import *	
	c)from package include all	
	d)from package include *	
(iii)	Which of the following will read entire content of file(file object 'f')?	
	a) f.reads()	
	b) f.read()	
	c) f.read(all)	

	d) f.read(*)	
(iv)	is used to create an object.	
	a) class	
	b) constructor	
	c) User-defined functions	
	d) In-built functions	
(v)	Which of the following error is returned when we try to open a file in write mode which	1
	does not exist?	
	a) FileNotFoundError	
	b) FileFoundError	
	c) FileNotExistError	
	d) None of the above	
(vi)	What is true about Inheritance in Python?	
	A. Inheritance is the capability of one class to derive or inherit the properties from	,
	another /	
	class.	
	B. It represents real-world relationships well.	
	C. It provides reusability of a code.	
	D. All of the above	
(vii)	What will be output for the following code?	
	try:	
	print(x)	
	except:	
	print(""An exception occurred"")	
	A. x	
	B. An exception occurred	
	C. Error	
	D. None of the above	
Q-2(a)	Define Function. List down types of function. Explain Parameter passing mechanism.	[05]
Q-2(b)	List and explain Parameter Passing techniques with example.	[05]
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Q-2(a)	What are python modules? Name some commonly used built-in modules in Python?	[05]
Q-2(b)	Write a Python program to find factorial of a number using recursion.	[05]
Q-3(a)	Explain classes and objects in python.	[05]
Q - 3 (b)	Explain Inheritance in Python with an example.	[05]
	OR	
Q-3(a)	What isinit? Explain with example.	[05]
Q-3(b)	Explain Polymorphism in Python with an example.	[05]
Q-4	Attempt any one.	[05]
(i)	What is an Exception? List some few common Exception types.	
(ii)	What is the shortest method to open a text file and display its content?	
