Enrollment No Exam Seat No
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## C. U. SHAH UNIVERSITY

# **Summer Examination-2020**

Subject Name: Python Programming

Subject Code: 5CS05MPY1 Branch: M. C. A.

Semester: 5 Date: 26/02/2020 Time: 10:30 To 01:30 Marks: 70

#### Instructions:

- (1) Use of Programmable calculator and any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

#### **SECTION-I**

Q. 1	Ans	wer the following questions.	07		
	(a)	When should we use "" (tripe quotes) to define strings?	02		
	(b)	What does range(1, 10, 2) return?	02		
	(c)	What is the difference between $10/3$ and $10//3$ ?	02		
	(d)	Show the result of this expression: "*" * 10.	01		
Q. 2	Attempt all questions.				
	(a)	What are the built-in type does python provides? Explain by example.	07		
	(b)	Write note on the key features of Python.	07		
		OR			
Q. 2	Attempt all questions.				
	(a)	What is List? What are the differences between Python Arrays and lists?	07		
	(b)	Explain functions in Python.	07		
Q. 3	Attempt all questions.				
	(a)	How do you write comments in python? How to comment multiple lines in python?	07		
	(b)	Describe the is and is not operators and type() function. Also, discuss why Python is	07		
		called as dynamic and strongly typed language.			
		OR			
Q. 3	Attempt all questions.				
	(a)	Write a command to read (Assume the file name is "students.txt"):	07		
		a. Read entire file			
		b. '20' characters from a file			
		c. Write output after executing both commands together.			
	(b)	Write a function called <b>showTriangle(N)</b> . If N is 4, it should print the following:	07		
		*#			
		*# *#			
		*# *# *#			



### **SECTION-II**

Q. 4	Ans	wer the following questions.	07	
	(a)	What is the use of pass statement in Python?	02	
	(b)	What do you mean by Slicing in Python?	02	
	(c)	Mention what are the rules for local and global variables in Python?	02	
	(d)	Is python case sensitive?	01	
Q. 5	Attempt all questions.			
	(a)	Enlist the looping structures supported by Python. Explain any one with example.	07	
	(b)	Explain ternary operators in Python.	07	
		OR		
Q. 5	Attempt all questions.			
	(a)	What are the two types of files? Explain different file operations.	07	
	(b)	What is a dictionary in Python?	07	
Q. 6	Attempt all questions.			
	(a)	Explain in detail about conditional statements used in python.	07	
	(b)	List some common datatypes used in Python. What is the difference between input()	07	
		and raw_input()? Explain with example.		
0 (	<b>A</b> 44	OR		
Q. 6		empt all questions.		
	(a)	Write a Python GUI program to import Tkinter package and create a window. Set its title and add a label to the window	07	
	(b)	Write a function called <b>showNumbers</b> that takes a parameter called limit. It should	07	
		print all the numbers between 0 and limit with a label to identify the even and odd		
		numbers. For example, if the limit is 3, it should print:		
		0 EVEN		
		1 ODD		
		2 EVEN		
		3 ODD		