II B. Tech I Semester Supplementary Examinations, October/November - 2020 PYTHON PROGRAMMING

(Com to CSE & IT)

Tin	ne: 3	3 hours M	Iax. Marks: 70
		Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A 3. Answer any FOUR Questions from Part-B	
		<u>PART -A</u>	
1.	a)	What Python uses, static typing or dynamic typing? Justify your answer wan example.	rith (2M)
	b)	Write a for loop that prints numbers from 0 to 57, using range function.	(2M)
	c)	Write a Python statement that swaps values of two variables. (only one listatement)	ine (2M)
	d)	What is PIP.	(2M)
	e)	How to create a destructor in Python? Give an example.	(3M)
	f)	Write python script to print current date and time.	(3M)
		PART -B	
2.	a)	Explain the history of Python evolution.	(7M)
	b)	Write a Python program that reads four integers from user, prints them with single print statement, without any space or newline between/after the values	
3.	a)	What is the purpose of else clause for a loop? Explain how else works we while and for loops, with examples.	rith (8M)
	b)	Write a Python program that prints multiplication table of a given number.	(6M)
4.	a)	What is a list in Python? How to create nested lists? Demonstrate how to create print a 3-dimensional matrix with lists.	ate (7M)
	b)	Write a Python program that counts the number of occurrences of a letter is string, using dictionaries.	n a (7M)
5.	a)		(8M)
		Explain about different types of arguments in Python.	
	b)	Write a Python function that computes the harmonic sum of n. Harmonic Sum = $(1/2) + (1/4) + (1/8) + (1/16) + \dots + (1/2^n)$	(6M)
6.	a)	Demonstrate implementation of hierarchical inheritance in Python, with program.	a (7M)
	b)	What happens if except clause is written without any Exception type? Explain with an example.	ain (7M)
7.	a)	Explain how to write test cases in Python.	(7M)
	b)	Write a Python turtle program to draw a blue square of size 200 and the draw green circle which touches the square on all sides from inside.	w a (7M)