

MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act,1956

IV B.Tech I Sem Regular End Examination, Nov/Dec 2022 Python Programming (OE-II)

(MECH)

Time: 3 Hours.

Max. Marks: 70

Note: 1. Question paper consists: Part-A and Part-B.

- 2. In Part A, answer all questions which carries 20 marks.
- 3. In Part B, answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART- A

(10*2 Marks = 20 Marks)

1.	a)	Python supports four different numerical types. List them.	2M	CO1	BL1
	b)	Illustrate string repetition operator.	2M	CO1	BL2
	c)	What are exceptions?	2M	CO2	BL1
	d)	What is meant by pickling?	2M	CO2	BL1
	e)	Create a regular expression to match any pair of words separated by a single space, i.e., first and last names.	2M	CO3	BL3
	f)	What is the significance of global interpreter lock?	2M	CO3	BL1
	g)	Define callbacks.	2M	CO4	BL1
	h)	What is the need of a crawler?	2M	CO4	BL1
	i)	How to create a database?	2M	CO5	BL1
	j)	What is ORM?	2M	CO5	BL1

PART-B

(10*5 Marks = 50 Marks)

2		Discuss the features of Python and compare them with C language features.	10M	CO1	BL2
		OR			
3	a)	Write a program that calculates and prints the number of minutes in a year.	5M	CO1	BL3
	b)	Write a program to convert a string representation of a number from octal base to hexa decimal base.	5M	CO1	BL3
4		Write Python script that looks for a search word in a file and displays each matching line as well as a summary of how many matching lines were found. OR	10M	CO2	BL3
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5	a)	Discuss the modules for serialization and persistency.	5M	CO2	BL2
	b)	Write a program to handle arithmetic exception.	5M	CO2	BL3

6		Discuss the most popular of the meta characters, special characters and symbols, which give regular expressions their power and flexibility	10M	CO3	BL2				
		OR							
7	a)	What is a thread? How does it differ from a process?	5M	CO3	BL1				
	b)	List the methods of Thread module.	5M	CO3	BL1				
8	a)	There are basically five main steps that are required to get GUI up and running .Discuss them.	5M	CO4	BL2				
	b)	What is the significance of Tix module?	5M	CO4	BL1				
	OR								
9	a)	Describe any two methods of urllib module.	5M	CO4	BL2				
	b)	How to build CGI application?	5M	CO4	BL1				
10		Illustrate the layers involved in writing a Python database application and briefly explain. OR	10M	CO5	BL2				
11		Write a python program to display student results after reading the hall ticket number from user. Consider student results data in	10M	CO5	BL3				

MLRS-R19

Course Code: 1970571 Roll No:

Database table.

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