

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

III B.Tech I Sem Supply End Examination, July 2022 Principles of Programming Languages (CSE & IT)

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)	Differentiate between static and dynamic semantic?	2M	CO1	BL2
	b)	List out language categories?	2M	CO1	BL1
	c)	Explain about the problems in unconditional branching?	2M	CO2	BL2
	d)	Differentiate between user defined and primitive data types with an example?	2M	CO2	BL2
	e)	Differentiate between function and procedure?	2M	CO3	BL2
	f)	Explain about the local referencing environments?	2M	CO3	BL2
	g)	What is message passing?	2M	CO4	BL1
	h)	What are the operations on semaphores?	2M	CO4	BL1
	i)	What are the applications of functional programming languages?	2M	CO5	BL1
	j)	What are the benefits of data abstraction?	2M	CO5	BL1

PART-B

(10*5 Marks = 50 Marks)

2	a)	Explain formal methods of describing sytax.	5M	CO1	BL4
	b)	Explain the criteria of success for a good programming language?	5M	CO1	BL4
		OR			
3		Discuss about language recognizers and language generators?	10M	CO1	BL2
4	a)	Discuss the structure and implementation of an associative array with an example?	5M	CO2	BL2
	b)	What are the design issues for names? Explain.	5M	CO2	BL2
		OR			
5		Explain about the control structures with an example?	10M	CO2	BL6

6	a)	Explain how subprogram is overloaded? Give example	5M	CO3	BL4
	b)	Discuss user defined overloaded operators?	5M	CO3	BL2
		OR			
7		Explain the different parameter passing methods with an example?	10M	CO3	BL4
8	a)	Explain the different types of semaphores?	5M	CO4	BL4
	b)	Explain how to handle the exceptions in C++?	5M	CO4	BL4
		OR			
9		Explain in detail about the concurrency?	10M	CO4	BL4
10	a)	Discuss the key concepts of scripting languages?	5M	CO5	BL2
	b)	Explain the comparison between functional and imperative Languages?	5M	CO5	BL4
		OR			
11		Explain various storage and control statements available in Python?	10M	CO5	BL4

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