



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 Section 2(f) & 12(B) of the UGC act, 1956

III B.Tech I Sem Supply End Examination, December 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)

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|-------|---|----|-----|------|
| 1. a) | What are general purpose languages? Give some examples? | 2M | CO1 | BL 1 |
| b) | What is attribute grammar? | 2M | CO1 | BL 1 |
| c) | Define associative arrays? | 2M | CO2 | BL 2 |
| d) | Illustrate Type Checking? | 2M | CO2 | BL 2 |
| e) | Explain Dynamic Scoping? | 2M | CO3 | BL 2 |
| f) | Discuss Generic sub programs? | 2M | CO3 | BL3 |
| g) | What is a thread? | 2M | CO4 | BL 3 |
| h) | Define monitor? | 2M | CO4 | BL 2 |
| i) | Define Imperative language. | 2M | CO5 | BL 2 |
| j) | Define scripting language. | 2M | CO5 | BL 1 |

PART- B

(10*5 Marks = 50 Marks)

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|------|---|-----|-----|------|
| 2 a) | Explain about language evaluation criteria? | 5 M | CO1 | BL 1 |
| b) | What are the general problems of describing syntax and semantics? | 5 M | CO1 | BL 1 |

OR

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|---|---|------|-----|------|
| 3 | Write BNF notation for following:
a) for loop b) If-else condition c) Structure definition | 10 M | CO1 | BL 3 |
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| 4 | Explain about scope and lifetime of a variable. What are the advantages of dynamic scoping over static scoping? | 10M | CO2 | BL 2 |
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OR

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| 5 | Discuss in detail Arithmetic Expressions and short-circuit evaluation? | 10M | CO2 | BL 4 |
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6	Explain different types of parameters passing techniques?	10M	C03	BL 5
OR				
7	a) Explain about the concept of local referencing environment?	5M	C03	BL 4
	b) Discuss about Co routines?	5M	C03	BL 4
8	Explain Exception handling in Ada, C++, Java ?	10M	C04	BL 5
OR				
9	What is Concurrency. Explain concurrency in Ada?	10M	C04	BL 3
10	Explain about LISP functional programming language?	10M	C05	BL 2
OR				
11	Explain Inferencing process of PROLOG?	10M	C05	BL 3

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CO - Course Outcome

BL - Blooms Taxonomy Levels