

**NR23: PRINCIPLES OF PROGRAMMING LANGUAGES:  
23CS508 (Professional Elective- II)**

**Unit 3**

**Question Bank**

S.No	Questions	BT	CO	PO
<b>Part–A(Short Answer Questions)</b>				
1	Define scope and life time of a variable?	L5	CO3	PO4
2	Explain subprograms in ADA?	L4	CO3	PO2
3	Differentiate shallow and deep binding.?	L3	CO3	PO5
4	Define local referencing environment?	L4	CO3	PO2
5	Define pass by value?	L4	CO3	PO1
6	Define pass by reference?	L4	CO3	PO2
7	List the design issues of functions?	L5	CO3	PO3
8	Define static scope?	L3	CO3	PO1

9	Define dynamic scope?	L3	CO3	PO4
10	Difference between procedure and co routines?	L4	CO3	PO2

<b>Part– B(Long Answer Questions)</b>					
1	a)	Define subprogram? What are the categories of subprograms?	L5	CO3	PO4
	b)	Discuss the design issues of sub programs?	L5	CO3	PO1
2	a)	What are the three general characteristics of subprograms?	L5	CO3	PO2
	b)	Write a detailed note on local referencing environments?	L2	CO3	PO2
3	a)	Describe about the static and dynamic scope of variables with An example?	L4	CO3	PO1
	b)	Explain about the generic subprograms with example. What are the design issues of abstract data types? Explain in detail various design issues of character string types?	L3	CO3	PO1
4	a)	Differentiate between actual and formal parameters	L3	CO3	PO3
	b)	Explain about co routines? How co-routines are different from conventional subprograms?	L4	CO3	PO1
5	a)	Define abstract data type? Explain type checking technique in parameter passing.?	L3	CO3	PO2
	b)	What are the modes, the conceptual models of transfer, the advantages and disadvantages of pass by value, pass by result, pass by value-result and pass by reference parameter passing methods?	L4	CO3	PO1