S.E. (Comp.) (Sem. III) (Revised Course) Examination, May 2010 PRINCIPLES OF PROGRAMMING LANGUAGES

Deratton: 3 Hours Max Marks: 100 Instructions : 1) Awayer any five questions by selecting at least one question from each Module. Make suitable assomptions. a) Explain the various classes of binding. 8 8 b) Explicit the implementation of an elementary data type. c) Explain briefly the syntactic elements of a language: 2. (i) Draw the FSA for the following: 8 i) All strings over (0, 1) ending with string 011. ii) All strings ever (a, b) containing odd number of a's. Explain the following: 18 i) Information biding ii) Subprogram activation. State the primary reasons for studying programming languages. 4 MODULE-II a) Explain the static rules associated with block structured program. 8- Explain the sequence control mechanism for arithmetic expression. 8 c) Explain aliasing of data objects. 4 a) Explain the transfer of execution control in case of multi-function program. 8 Explain the control statements for expressing the basic control forms of composition, alternation and iteration. e) Explain with an example short circuit boolean expression.



MODULE-III

$S_{r_{i}}$	a)	Write a short note on exception and exception handlers.	6
000	bj	What do you mean by concurrent programming 7 Explain with examples.	6
(10)	c)	Explain the following:	8
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		ii) Somephores. ** 2.50 min to the manufacture of the more of the manufacture of the manu	
6.	a)	Explain with the help of an example recursion in C_{ℓ}	8
	bj	What do you mean by critical section? Explain with an example.	6
	0)	Write a PROLOG program to find sum of first N natural numbers.	6
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4:	2)	Write a short note on the following:	10
	14 0405	i) Advantages of Block structured Languages	
		ii) Storage Management in ADA, and the public of the second of the secon	
	(6)	Explain storage orangeroent in PASCAL,	3
	$\langle c \rangle$	Explian sequence control in LISP.	5
8.	a)	State the advantages of object based languages over blocked structured languages.	18
	b)	Explain the following with respect to PASCAL:	12
		i) Sequence control	
		ii) Numeric cata types.	
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