USN

NEW SCHEME

Sixth Semester B.E. Degree Examination, Dec. 06 / Jan. 07

CS/IS

Compiler Design

Time: 3 hrs.]

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[Max. Marks:100

Note : Answer any FIVE full questions.

	a.	following statement as input.	lering the
			(10 Marks)
	b.		(06 Marks)
	c.	Briefly explain a strategy to reduce the number of passes.	(04 Marks)
2	a.	Write a transition diagram to recognize the following set of tokens. Write segments for start state, any one of the intermediate states and any one final BEGIN END ELSE Identifier	
	h	What is look ahead operator? With examples show how this operator may l	
	0.		(10 Marks)
3	a.		r recovery (10 Marks)
	b.	Define left-recursion. Eliminate left recursion from the following grammar : $E \rightarrow E + T / T$ $T \rightarrow T * F / F$ $F \rightarrow (E) / id$ Also obtain FIRST and FOLLOW symbols for the above resulting grammat	
4	a.	Construct SLR(1) parsing table for the following grammar $E \rightarrow T * E / T$ $T \rightarrow T + F / F$	
		$F \rightarrow id$	(10 Marks)
	b.	Compare the relative merits and demerits of LL (1), SLR (1), LALF	and the second second second
5			(06 Marks) (04 Marks)
	c.	Give SDTS for an arithmetic expression with +, * and Show annotated	and the second s
		AND COLLEGE OF	Contd 2

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- 6 a. Explain in detail, different storage allocation strategies.b. With example explain different parameter passing methods.
- 7 a. Briefly explain the main issues in code generation.b. Briefly explain any five kinds of code-optimization.

8 Write short notes on :

- a. LEX
- b. Recursive descent parser.
- c. Dead code elimination.
- d. L-attributed SDD.

(10 Marks) (10 Marks)

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(10 Marks) (10 Marks)

(20 Marks)

Entrance exam paper, Sample paper and previous year solved question paper