SVKM's NMIMS

MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING

Programme: B. Tech (Computer)
Batch: 2012-13

Year: III

Trimester: IX

Academic Year: 2013-2014

Subject:

Principles of Compiler Design

Date:

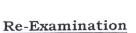
12/07/2014

N.B.

Marks:

Time:

Durations: 3 (hrs)



1	 Q1 is compulsory Solve any 4 from remaining question In all 5 question has to be attempted 	
		MARKS
Q1	a)Explain various errors detected by each phase of compiler	05
	b) Explain cross compiler with example.	05
	c) Compare static, stack and heap allocation.	10
Q2	a)What are the various phases of compiler .Explain	10
2.	b) What is regular expression .Give regular expression which denotes all string whose length is not two. Draw NFA for same	10
Q3	a)Explain recursive decent parser with suitable example	10
	b)Construct LALR(1) parser table for the grammar SiCtS CtSeS a C->b Check if there are any conflicting entries or not.	10
	check if there are any confineting entires of not.	
Q4	a) Draw syntax tree and DAG for the expression $(p*q) + (r-s)*(p*q) + q$	10
	b)Explain various strategies to recover from Syntactical errors	10
Q5	a)Explain run time storage organization in detail.	10
	b) What are various problem in top down parsing technique	10
Q6	a)Explain various form of intermediate code use by compiler. b)Discuss loop optimization technique with the help of suitable	10
	example	10
Q7	Write short note (any four) A. Code optimization B. YACC	20
~ •	C. Java compiler and environment D. Lexical analyzer E. Recursive decent parser	

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