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TCS-602	237	Printed Pages :
Paper ID & Roll	No. to be filled in yo	
Roll No.		
В.	Tech. (VI Se Examination COMPILER D	2015
Time: 2.00 Hours	1	[Total Marks: 100
Attempt all ques	tions.	Trible Sules
Q1) Attempt any	four:	(4x5)
A) What is concompiler.	mpiler? Explain	the various function of
B) Explain BN	F notations in de	tail.
C) Describe Bo design.	ootstrapping and	d its uses in compiler
D) Explain LEX	Compiler.	
E) What is synta	ax directed trasla	tion? Explain it.
	or Detection in o	
(2) Attempt any fo	our:	(4x5)
Describe LR construction	parser and its im	portance in compiler

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- B) Describe tokens and lexical analysis.
- Explain capabilities of CFG and its use in compiler design.
- D) What is lexical phase error? Give the answer in detail.
- E) Describe importance of passes in compiler design.
- F) Explain postfix translation in syntax-directed translation.
- Q3) Attempt any two:

(10x2)

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- A) Describe different phases of compilation process with the help of diagram.
- B) Explain:
 - i) Cross Compiler
 - ii) YACC
- C) Explain Global Data-Flow analysis and its use in code optimization.
- Q4) Attempt any two.

(10x2)

- A) Describe DAG and its special features.
- B) Explain:
 - i) Syntactic Phase Errors
 - ii) Stack allocation scheme

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- C) Explain:
 - i) Loop opotimization
 - ii) Intermediate Code
- Q5) Attempt any two.

(10x2)

- A) Explain symbol table and its data structure.
- B) i) What do you mean by formal grammer, explain with suitable example.
 - ii) Discuss the rules for finding the syntactic specification of programming languages.
- C) Describe:
 - i) LALR parsing table
 - ii) SLR parsing tables

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