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Cod	le No: 125AP	R15
	JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDE B. Tech III Year I Semester Examinations, May - 2018	ERABAD
	COMPILER DESIGN (Computer Science and Engineering)	ax. Marks: 75
Note	Part A is compulsory which carries 25 marks. Answer all questions in 1 consists of 5 Units. Answer any one full question from each unit. Each question and marks and m	Part A. Part B uestion carries
AG.	10 marks and may have a, b, c as sub questions.  PART A	3 AG /
		(25 Marks)
1.a) b) c)	What are the two parts of a compilation? Explain briefly.  Define a context free grammar.  List the properties of LR parser.  Write short notes on YACC.	[2] [3] [2]
e) f) g) h) i)	What are the various types of intermediate code representation? Give the format of symbol table List the terminologies used in basic blocks. What is a flow graph?	[3]\ [2] [3] [2] [3]
<u>A</u> G	Mention the properties that a code generator should possess.  What is a DAG? Mention its applications.  PART-B	[2] [3] (50 Marks)
2.	Explain in detail about the role of Lexical analyzer with the possible er actions.	ror Recovery [10]
Д <b>З</b> .	Construct Predictive parsing table for the following grammar: the necessary algorithm.  S > (L)/a	a AG A
4.	L > L, S/S and check whether the (a, a) belong to that grammar or not. Give the LALR parsing table for the grammar. S -> L = R / R $L -> * R / id$ $R -> L$	[10] [10]
AJ:	Compare and contrast between SLR LALR and LR parses.	
6.	How would you generate the intermediate code for the flow of control Explain with examples.	statements? [10]
7.	OR Explain how the types and relative addresses of declared names are compu	
AG .	scope information is dealt with.  AGAGAGAGAGAG	

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	8. 	Explain the Give an exa	[10] [10] n. [10]	A				
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