## AG AG AG AG AG AG A

	,	A	f A Someth	j			
Co	ode No: 115AP JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY	<u> </u>	R13				
$\triangle$	B. Tech III Year I Semester Examinations, May - 20  COMPILER DESIGN  (Computer Science and Engineering)  ne: 3 hours	18 A Max. Ma	AG	/			
Not	This question paper contains two parts A and B.  Part A is compulsory which carries 25 marks. Answer all question consists of 5 Units. Answer any one full question from each unit. In marks, and may have a, b, c as sub questions.  PART-A	Each question	Part B carries A Marks)	1			
1.a) b) c) d) e) f) g) h) i)	Define a context free grammar.	40	[2] [3] [2] [3] [2] [3] [2] [3]	_			
AG	What is a DAG? Mention its applications.  PART-B	△ (50 N	[2] [3] Analysis	_			
2. Explain in detail about the role of Lexical analyzer with the possible error Recovery actions.							
△ (3.	Construct Predictive parsing table for the following grammar: the necessary algorithm.  S > (L)/a  L > L, S/S and check whether the (a, a) belong to that grammar or no	<b>\</b>	[10] 	A			
4.	Give the LALR parsing table for the grammar. $S \rightarrow L = R / R$ $L \rightarrow R / id$ $R \rightarrow L$		[10]				
△ 3. 6.	Compare and contrast between SLR LALR and LR parses.  How would you generate the intermediate code for the flow of contrast between SLR LALR and LR parses.  OR  OR  OR  OR  OR  OR	ontrol statem	[10] nents? [10]	A			
7. 4G	Explain how the types and relative addresses of declared names are c scope information is dealt with.	computed and	how	A			

## AG AG AG AG AG AG AG

	8. 9. 10.	Explain the Give an exa	t Data flow analy principle sources ample to explain i	OR s of optimization i n detail about ma OR	n detail.		[10] [10] n. [10]	A
•	AG	AG	AG	\_\_\(\mathrea{\cdot\)\(\mathrea{\cdot\}\)	AG	AG	AG	A
	AG	AG	AG	AG	AG	AG	AG	A
	AG	AG	AG	AG	AG	AG	AG	A
e e	AG	AG	AG	AG	AG	AG	AG	A
	AG	AG	AG	AG	AG	AG	AG	Д
٠	AG	AG	AG	AG	AG	AG	AG	A