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Cod	e No: 125AP JAWAHARLAL NEHRU B. Tech III Ye A Con	TECHNOLOGICA ar I Semester Exam COMPILER DES nputer Science and E	inations, May -	Y HYDERABA 2018	A some	
Note	Part A is compulsory whice consists of 5 Units. Answer 10 marks and may have as	ch carries 25 marks. r any one full questic	Answer all ques	t. Each question	Part B carries A Warks)	_
1.a) b) c) d) e) f) g) h)	What are the two parts of a Define a context free gramm List the properties of LR pa Write short notes on YACO What are the various types Give the format of symbol List the terminologies used What is a flow graph?	mar. arser. c. of intermediate code table in basic blocks.	representation?	AG	[2] [3] [2] [3] [2] [3] [2] [3]	<u> </u>
	Mention the properties that What is a DAG? Mention it	a code generator shots applications. PART-B	_	△ (50 N	[2] [3] Alarks)	<u> </u>
2. A 3.	Explain in detail about the actions. Construct Predictive parsing the necessary algorithm. S > (L)/a L > L, S/S and check whether	OR g table for the follow	ing grammar:	AG	(10) (20) (20) (20) (20) (20) (20) (20) (2	Δ
4. 	Give the LALR parsing table $S \rightarrow L = R/R$ $L \rightarrow *R/$ Compare and contrast betwee How would you generate the Explain with examples.	id R -> L OR en SLR LALR and		A G	[10] [10] nents? [10]	Δ
7. AG ,	Explain how the types and rescope information is dealt with	elative addresses of	A James	are computed and	d how [10]	A

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8. Write about Data flow analysis of structural programs.

OR

Explain the principle sources of optimization in detail.

0. Give an example to explain in detail about machine dependent code optimization. [10]

OR

11. Describe how DAG can be used in register allocation process? Give examples. [10]

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