BE INSEM AUG 2015

4

2

And mores

Transmit promoted property

04) a) b) c) Q3) a) Q2) a) Q1) a) Instructions to the candidates: Total No. of Questions: 6] 6) 0 0 5 0 0 PRINCIPLES OF MODERN COMPILER DESIGN Neat diagrams must be drawn wherever necessary. Assume suitable data, if necessary. Figures to the right indicate full marks. $S \rightarrow BB$ Generate LR(1) parsing table for following grammar: Compare single pass and multi-pass design for compiler Explain need of symbol table with compiler. List different data structures $C \rightarrow b$ $S' \rightarrow eS \mid \in$ S → iCtSS' a Check if following grammar is LL (1) Explain in brief: Recursive Descent parser

Differentiate between syntax and semantic analysis by giving example. [2]

Check if following grammar is LL (1) $B \rightarrow d$ $B \rightarrow cB$ What is type checking? Explain static Vs dynamic storage allocation. What are lexeme, pattern and token in lexical analysis? What is LEX? Give format of LEX specification file. What is garbage collection? for symbol table. What are problems/ issues associated with top-down parser. (2012 Pattern) (Semester - I) B.E. (Computer Engg.) B.E/Insem.-74 SEAT No. : [Total No. of Pages: 2 [Max. Marks: 30 S 4 [2] 4 w 4 2 2 200 6 Q5) a) Q6) a) 6) 0 0 6 p < q or a > bGenerate intermediate code for following Boolean expression: Define: L-attributed grammar Explain need for intermediate code Compare quadruple, triple and indirect triple Explain advantages of intermediate code. Generate intermediate code for following statement: (Specify syntax directed translation scheme) (Specify syntax directed translation scheme) 000