SMCE

Unikwise Important Question.

UNIT-1

Phases of Compiler (or) structure of compiles

Role of Lexical Analyzes

Specification and Recognition of

Pokens.

Lex Explanation 2 Example program.

Finite Automata - Eample problems

Regular Expressions to Automata (conversion problem)

Minimizing DFA - problem.

UN17-2

- 1) Role of Parser
- 2) Context Free grammars problems
- 3) Error Handling in Pauser
- 4) Recursive Descent Pauser problem
- 5) Predictive Pariser Problem.
- 6) Shift Reduce Pauser Problem
- 7) SLR pauser problem.
- 8) LALR pauser problem.
- 9) YACC Explanation Example program.
- 10) Ambiguous grammar.

- 1) Syntax Dissected Definitions.
- 2) Evaluation Orders for Syntax Discerted Definitions (or) Bottom-up Evaluation of S-attribute deb
- 3) Intermediate Languages
 - Three Address codes
 a) Quadruple
 b) Priple
 c) Indirect Priple
 - Types and Declarations of Expressions.
 - Type checking Explanation Q, Example

UNIT-4

- 1) Storage Organization strategies
- 2) Access to Non-local Data
- on the stack.

 3) Heap Management.
- 4) Desues in design of code generation
- 5). Design of a simple code generator algorithm.

UNIT-5

- 1) Principal sources of optimization
- 2) Peep-hole optimization.
- 3) DAGI (Discoted Acyclic Grouph)
 problems
- 4) Basic blocks and Flow gouphs
 - 5) Optimization of basic blocks
 - 6) Gilobal data flow Analysis
- 1) Efficient Data Flow Algorithm