Mid term Suggestion

1st chapter:

- Compiler definition, model(analysis, synthesis), language processing system, Phases of compiler, Hybrid approach, Syntax and semantic analyzer,

Lexical analysis:

- Lexical definition, token and lexeme definition, types of token, how syntax analyzer parse token?, how lexical analyzer works-steps, count token from code, symbol table.

Syntax analyzer/ parser:

- types of parser, LL and LR parser, error handling, error recovery strategies.
- Remove of Left recursion and left factoring, Ambiguity and removal of ambiguous grammar, right most derivation, reverse rightmost derivation, Handle, Shift reduce parsing(String will be given), Conflict(Shift reduce parsing and reduce-reduce parsing),
- **Top-down(LL(1)):** Predictive parsing/LL(1)/ first-follow, parsing table,(String will be given)
- **Bottom-up parsing:** Augmented Grammar, (LL(0), SLR(1)), parsing table, string traversal(String will be given)