Short Answer Questions

- Define Compiler. Write the properties of a compiler.

- Define bootstrapping.

- Define Token and Pattern.

- List out error recovery techniques.

- State left recursive grammar.

- Define syntax directed definition.

- Define cross compiler.

- Identify tokens and lexemes from the following code:

- void main()
  {
  int a,b;
  scanf("%d%d",&a,&b);
  printf("%d",a+b);
  }

- List out types of parsers.

- Define ambiguous grammar with example.

- List out applications of SDT.

- List out data structures used in compiler.

Long answer questions

- Explain the various phases of a compiler in detail. Also Write down the output for the following expression after each phase total = count + rate * 60.

- Write down the steps to compute CLOSURE and GOTO Functions.

- Construct Predictive Parsing Table for the following Grammar

  E - > E + T | T

  T - > T * F | F

  F - > (E) | id

- Explain the differences between L-attribute and S-attribute definitions with example.

- Explain the role of Lexical Analyzer and also list out issues of Lexical Analyzer

- Explain Specification of LEX with example.

- Construct Canonical set of items LR(0) for the following grammar and design DFA for the items.

  E - > E + T | T
  T - > T * F | F
  F - > (E) | id

- Explain role of parser.

- Construct SDD for the given grammar
  E - > E + T | T
  T - > T * F | F
  F - > (E) | id.

- Differentiate S-attributed and L-attributed definitions.

- Describe input buffering and write short notes on sentinels.

- Explain the Role of a Parser and also explain LR(1)parser with example.