Chapter 6: Intermediate Code Generation

- 1. What are the various types of three address statements?
- 2. Explain types of 3-address statements
- 3. What are the three ways of intermediate representation? Explain with example a := b * c + b * c
- 4. Write the Syntax-directed definition to produce syntax trees for assignment statements.
- 5. Write the Semantic rules generating code for a while statement.
- 6. Write a short note on
 - a. Quadruples
 - b. Triples
 - c. Indirect triples
- 7. Write the Syntax directed translation scheme for nested procedures
- 8. Write the Semantic action for $E \rightarrow E1 + E2$ for type conversion within assignment.
- 9. Explain the Translation scheme using a numerical representation for Booleans
- 10. Write the Syntax-directed definition for following flow-of-control statements
 - a. if-then
 - b. if-then-else
 - c. while-do
- 11. Explain the Syntax-Directed Translation of Case Statements
- 12.List and explain the function used for Backpatching
- 13. What is Backpatching? Explain with the help of Backpatching for boolean expression