T-3

- (1) Explain about the Directed Acyclic Graph (DAG) and construct the DAG for ((a+a)+(a+a))+((a+a)+(a+a)). [BL-3]
- (2) Write the short note on:
- a) Abstract syntax tree
- b) Polish notation [BL-2]
- (3) Evaluate the prefix and postfix expression for A=(20+(-5)*6+12). Also convert the Expression
- "a or b and not c" into three address code. [BL-3]

T-4

- (1) Explain in detail the imortance of type checking. Also give the difference between Static and Dynamic checking.
- (2) Explain the functions of an error handler in a compiler, including error reporting, error classification, and error recovery strategies.
- (3) Discuss the uses of symbol tables in compilers and describe the storage allocation information stored in symbol tables.