

OR

- 8 a. Using operator-precedence parsing algorithm, construct the table and parse the input string $id + id * id$. (12 Marks)
 b. Define Handle, viable prefixes. (04 Marks)

Module-5

- 9 a. Discuss S-attributed and L-attributed SDD. (06 Marks)
 b. Write 3-address code syntax tree and DAG for the expression $a + a * (b c) + (b - c) * d$. (10 Marks)

OR

- 10 a. Obtain the SDD and construct annotated parse tree for the input string $6 * 5 + 3$, for the grammar
 $S \rightarrow EN$
 $E \rightarrow E + T / T$
 $T \rightarrow T * F / F$
 $F \rightarrow (E) / \text{digit}$
 $1^* \rightarrow ;$
 b. Discuss the issues in the design of code generator. (10 Marks)

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