

## Question Bank

1. Write a short note on : Ambiguity resolution

2. Let G be the grammar

$$S \rightarrow aB \mid bA$$

$$A \rightarrow a \mid aS \mid bAA$$

$$B \rightarrow b \mid bS \mid aBB$$

Find leftmost derivation, rightmost derivation and parse tree for the string “bbaaabbaba” .

3. The following grammar generates the language of RE :  $0^*1(0+1)^*$

$$S \rightarrow A \mid B$$

$$A \rightarrow 0A \mid \epsilon$$

$$B \rightarrow 0B \mid 1B \mid \epsilon$$

Give leftmost and rightmost derivations of the following strings

a) 00101              b) 1001

4. Obtain leftmost derivation, rightmost derivation & derivation tree for the string “cccbaccba”. The grammar is

$$S \rightarrow SSa \mid SSb \mid c$$

Also check whether the grammar is ambiguous or not.