

Question Bank

Module 3

Q. 1. Explain Greibach Normal Form and conversion of CFG to GNF.

Q. 2. Convert the following grammar G into Greibach Normal Form (GNF).

$$S \rightarrow XA|BB$$

$$B \rightarrow b|SB$$

$$X \rightarrow b$$

$$A \rightarrow a$$

Q. 3. Convert the following grammar G into Greibach Normal Form (GNF).

$$S \rightarrow XB | AA$$

$$A \rightarrow a | SA$$

$$B \rightarrow b$$

$$X \rightarrow a$$

Q. 4. Convert the following CFG into CNF

$$S \rightarrow XY | X_n | p$$

$$X \rightarrow mX | m$$

$$Y \rightarrow X_n | o$$