

Assignment 3(unit 3)

Assignment	
1.	Define Greibach normal form.
2.	Define nullable Variable.
3.	<p>State the nullable variables from the following CFG.</p> $S \rightarrow ABCa \mid bD$ $A \rightarrow BC \mid b$ $B \rightarrow b \mid \epsilon$ $C \rightarrow D \mid \epsilon$ $D \rightarrow d$
4.	State the symbol is used to label the interior node of the parse tree.
5.	Define the language of PDA accepted by final state.
6.	List the steps to convert CFG to PDA.
7.	Define CNF.
8.	Define PDA.
9.	Define NPDA.
10.	Differentiate between deterministic and nondeterministic PDA.
11.	Write a short notes on Chomsky Normal Form and Griebach Normal Form
12	<p>Use the following grammar :</p> $S \rightarrow ABC \mid BbB \quad A \rightarrow aA \mid BaC \mid aaa \quad B \rightarrow bBb \mid$ $a \mid D \quad C \rightarrow CA \mid AC$ $D \rightarrow \phi$ <p>Eliminate ϵ-productions.</p> <p>Eliminate any unit productions in the resulting grammar. Eliminate any useless symbols in the resulting grammar. Convert the resulting grammar into Chomsky Normal Form</p>