**SRM INSTITUTE OF SCIENCE AND TECHNOLOGY**

**RAMAPURAM CAMPUS**

**FACULTY OF ENGINEERING AND TECHNOLOGY**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**B.Tech. CSE-Specialization with IoT**

**Assignment- 2**

**Sub Code/Name : 18CSC301T - Formal Language and Automata**

**Class :** III Year /V Sem/B.Tech

**Date : 2/11/2022**

**Max Marks :** 20

**1. Convert CFG to CNF (5M)**

S → ASB

A → aAS|a|ε

B → SbS|A|bb

**2. Convert CFG into GNF (5 M)**

S → XA|BB

B → b|SB

X → b

A → a

**3. Convert PDA to CFG (10 M)**

**G = ({S, X}, {a, b}, P, S)**

where the productions are −

**S → XS | ε**

**A → aXb | Ab | ab**

**Subject Handler HoD**