CS 302
REMOTE QUIZ 9
Duration : 20 minutes

20 May, 2021

QUESTION

*Given a CFG **G=({S,X,Y},{a,b}, R, S)** where the productions in **R** are given as :*

S→ a X S | b Y S | e ; X → a XX | b ; Y → b YY | a . ;

(a) *(5 pts) Construct in detail a PDA **P** that accepts the language generated by **G** above. Is your PDA a DPDA ? Explain.*

(b) *(5 pts) Using **look-ahead techniques** by introducing extra states construct a new PDA **P'** that - at least partially - overcomes non-deterministic transitions.*