NOTE: Simplifications f Conversion of DFA to R.E use the following Simplifications for Rijk Method ER = RE = R $2. \quad \phi R = R \phi = \phi$ $(\epsilon)^* = \epsilon$ and $(\phi)^* = \epsilon$. $\phi + R = R$. R+R=R 5. RR* = R* R = R+ $(R^*)^* = R.$ 7. E+RR* = E+R*R=R* 8. R* R* = R* 9. R*+E = R* 10. (R+E)* = R* (R+E) R* = R* (R+E) = R* 11. (R+E)(R+E)*(R+E) = R* R*s +s = R*s., SR*+s=SR*. 13. 15. $\phi + \epsilon = \epsilon$ 1. R* = { E, R, RR, RRR,9

2. $RR^* = R \int E/R, RR/RRR, 3$ 3. $R^+ = \int R, RR, RRR, 3$ $R^*(R+4)$

R* R+R* R+ + R* .

4. SR* = { S, SR, SRR ... 3 U & S3.

5. R*S= &S, RS, RRS....3 U{S}