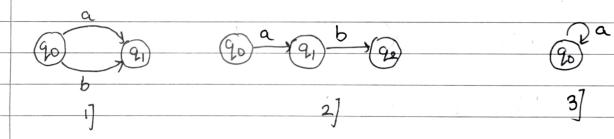
	//
	Unit II - Regulau Expressions.
*	Regular Expression - RE are Short rotations that can denote complex
	and infinite regular larguage
•	RE over & include letters, & [empty set] and & [empty string of length zero]
	Operators in RE-
	* : Closure Precedence? • : Concatenation + : Union
	* - Zero or more occurrences 1(r) · - Serial connection V + - parallel connection larg at - one or more occurrences representat
e _{rg} -	q_0 q_1 q_2
	Set of all strings over foil consisting of lor D followed by zero or more no of 1's

Eg- (01)* +1

set of all strings over to, 14 consisting of for 0 or more no- of 01.

- · atb -> parallel (either a or b)
- a·b → series (pollowed by b)
- a* → closure



* Identities of Regular Expression.

- 1) RUP = R [adding empty language
- 2) O.R = R.O = O
- 3] E.R. E. R. E. E. Joining empty String to any string will not change] 4] E* = E and p* = E
- 5 R+R=R
- 6 R* R* = R*

- (1) RR* = R*R
- 8) (R*) = R*
- 9] E+RR* = R* = E+R*R
- * Equivalence of FA & RECO
 - 1] ab &= {a,b}
 - NFA $\rightarrow @ \xrightarrow{\alpha} @ 1 \xrightarrow{b} @ 1$
 - NFA E 90 a 91 E 92 93
 - al out
 - NFA 90 (91)
 - NFA- E 90 4 E 91
 - 3 0*

NFA Qu

