## Practical NO 3

Page No.
Class
Roll No.
Date: / /201

Title: Write a C program to recognize string under

Theory &

defined as follows

- · E is a regular · Expression · indicates the language containing · on · empty · string · (L(E) = { ∈ 3 )
  - e () is a Regular Expression durithy an empty canquage (L(0) = {3})
  - X is a Regular Expression
- · It x is a regular expression denoting the language L(X) and y is a regular empression danising the language L(Y); then
- -> X+y is a regular expression corresponding to the language · L(x) + L(V)
- -> x.y is a regular expression consessonding to the language (L(X).L(Y)) where L(X,Y)= L(X).L(Y)
- -> R\* is a regular expression corresponding to
  the language 1(R\*) where (L(R\*) = (L(R))\*

(0+0) (1+6)

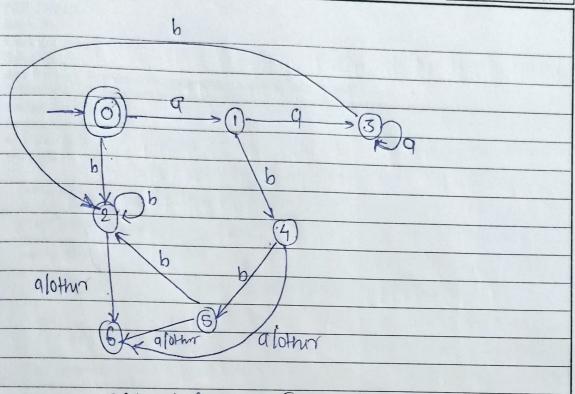
Page No.
Class
Roll No.
Date: /

	Date: /
Regulas expression	r can be defined by the Follow
rules	Addit Manager San
1. Every letter o	f the alphabets & is a regular
expression.	min market and market and a second
0 0111 2	and the second
2. Juail smn a	nd empty set of one reguler
Expression,	ar among water colonia a different
3- 16 or and to	
3-3f or and P2 are gegular expression from	
1) -81, 12	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ii) rigz (concatenation of ri, rz)	
fii) 21+82 (unlar of 84 and 82)	
iv) 21 * 82 ( Klein clouder of of and rz)	
A MANAGEMENT	N. Carlotte and Anna Street and Anna Street
4) of a string deferred form the rules 1,2 and 3	
Then it was a	etimos expression
some RE example.	
	1V))) + (%))   See ye would be
Regular Expression	Regulan Set
CO+10*)	L= 30,1, (0, LOV, 1000, = 3
100 1 B)	1 6. 1 2 5
(0* to *)	L = {1,01,10,010,0010,}

L= { E,0,1,013.

GP/GC.OE

Page No.
Class
Roll No.
Date: / /201



DFA of Regular Expression 9t, 9tb, 966

Result :-

- thus the program to recognize string under 'q", 'a\*b', 'abb' aus precuted and the output was unified successfully

G.P/G.C.O.E.J.