

## Q#1 IDENTIFIERS:-

Start from - or letter and contains at least one "-"

$$L = \{-\text{rate } 2, -\text{rate } -, \text{rate } 2, \dots\}$$

$$R.E = \{ - [a-z A-Z 0-9 -]^* | [a-z A-Z]$$

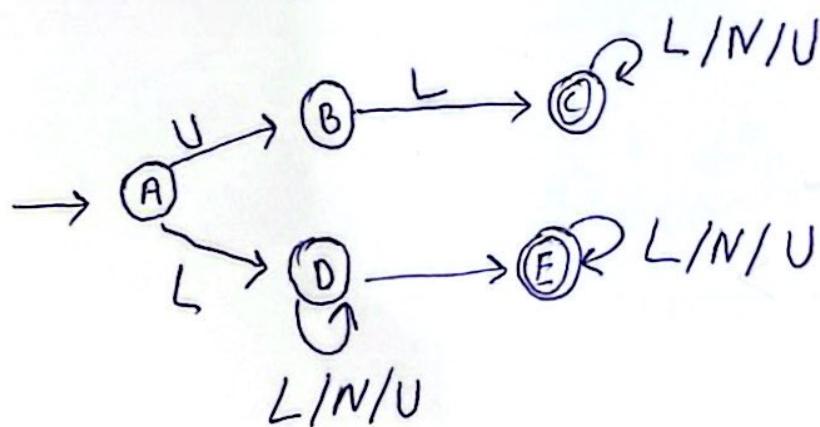
$$[a-z A-Z 0-9 -]^* - [a-z A-Z 0-9]^*$$

FA:

$$- (\text{Underscore}) \rightarrow U$$

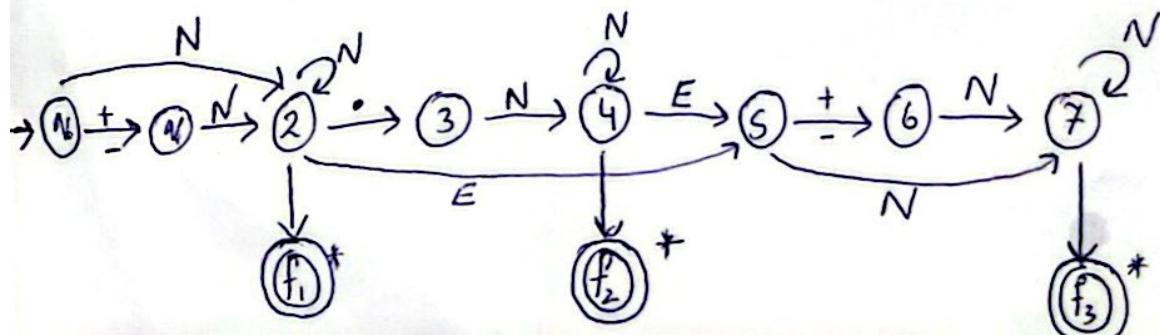
$$\text{Letters} \rightarrow L$$

$$\text{Numbers} \rightarrow N$$



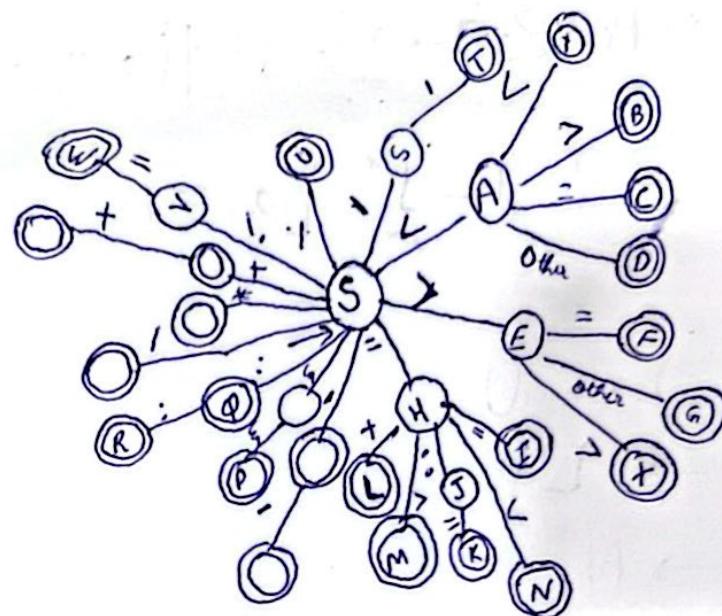
## Q#2 NUMBERS:-

$$R.E = (+/-)? N^+ (. N^+)? (E (+/-)? N^+)$$



### Q#3: OPERATORS :-

R.E = ! = | < > | = : = / \* / + / / - / >> / << / + + | = + | & & / || | = > / =  
x | : | : | - -



Q) 5) Keyword

R.E = loop | agar | megar | asm | else | new | this | auto | enum | operator | throw |  
bool | explicit | private | true | break | export | protected | try | case | enum | public |  
typedef | catch | false | register | typeid | char | float | typename | class | for | return |  
union | const | friend | short | unsigned | goto | signed | using | continue | if | sizeof |  
virtual | default | inline | static | volatile | delete | int | volatile | do | long | struct  
| double | mutable | switch | while | namespace.

