>95%. -5  
>95%. -5  

$$90-94\%-94$$
  
 $85-39+3$   
 $80-89-2$   
 $75-79-1$   
 $<75-0$ 

20 — Assignments
Test

Books:

Hopcroff Ulman Introduction to Automate Theory, languages & Competalinj.

## Theory of computations:

Symbol 9,6,01d, 1,2,3...

Basyc Building
Block
(later, mainlers)
Subject Of Sambole

Althobet  $\Sigma = \{a, b\}$  $\Sigma = \{a, b, c\}$ 

Subset of Spubols

String (a,b,aa,bc,ca,cc...

Sequence of Alphabets

Z= fa, b} a, b, aqa, ab, ba....

How many strings are possible of ungter or with 2a, b} outphabots?

Length 3

Length on

$$\Sigma = \{0, b\}$$
 $[\Xi] = no f$  alphabets

 $no q$  strings of reagth  $m = |\Xi|$ 

language Collection of Strings

L, Set of all Strings of length 2  $\Sigma=19,6$ }

L1= 200, ba, bb, ab 3

finite language

L2 set of all shrings of lungth 3

L2: {2009, all, all, bad, bab, bbd, bbb}

language fruite infinite

L3 Set of all Strings where each string Storts

Lz = 2 a, aa, ab, aaa, aka, aaaa, ..... }

Infinite congrege

Powers of E = {a,b}

 $\Sigma' = Set of all Strings over <math>\Sigma$  of length 1 = 9a, b

 $\Sigma^2$  = Set of all strings over  $\Sigma$  of length 2 =  $\Sigma \cdot \Sigma$  =  $\{a,b\}$   $\{a,b\}$ =  $\{aa,ab,ba,bb\}$ 

Z3= Z. Z. Z = {a, b} {a, b} {a, b}

$$\sum_{i=1}^{n} = \sum_{i=1}^{n} \sum_$$

Given a language 2, you need a finite representation which can be stored in a monorry and by using it you shall be able to tell if a string is present in language or mot. finite Representations

Printe Automata Final State: 4 = Set of all Strings which Start with a. Z= {a,b} abba FA: (String is in the (ongrage)

