1.

SI = The man saw a car in the park

S2 = 3 sow the man park the car

The 3 man sow a cow park in

S1 = 0 1 1 1 1 1 1

S2 = 1 1 0 1 1 0 1

 $\sqrt{\Sigma (s_{1i} - s_{2i})^{2}} = \sqrt{0^{2} + (-1)^{2} + 0 + 0 + 1 + 0 + 0 + 1} = \sqrt{3}$   $\sin (s_{1}, s_{2}) = \frac{1}{1 + cl(s_{1} + s_{2})} = \frac{1}{1 + \sqrt{3}} = 0.366$ 

le) vector cosine:

$$sina cos(si152) = \Sigma_{1i} S_{2i} = \frac{h+o+1+1+o+1+1+o}{\sqrt{\Sigma_{3i}^{2}} \cdot \sqrt{\Sigma_{3i}^{2}}} = \frac{h+o+1+1+o+1+1+o}{4+o+1+1+o+1+1+o} = \frac{8}{3\sqrt{10}}$$

20.343

cl Jaccourd

simpor 
$$(s_1,s_2) = \frac{a}{a+b+c}$$

Elanture set:

sin jac (31,31) = 5 2 0.625

of overlap  $(31,31)=\frac{a}{min (9+h_1a+c)}=\frac{5}{min (7,6)}=\frac{5}{6}=0.833$