130328 - 1RS logical view of document. Documents in a collection are supremented through set of inden terms or try woods such trywoods night be enteneted directly from the test of the document.

No muto is responsentative towards the document. No mutor of responsentative requords are derived automatically or generated by a specialist they provide a logical view of The user of retrieval nyten has to translate his informa tion need into a query in the language provided by the system. We make a clear distinction between the different tack the user of the gret rieval system might be engaged in the tack might be of a different type Information or data retrieval and browning. Data retrieval system a query expression is used to learney the constraints that must be retinfied by objects in the answer sol . Browning, in language of world wide web pulling action when the User grequest the Propormotion is an interactive manner, or by using software agent which push information Precision: It is defined as the nation of fraction of the retrieved documents which is relevant 100 of documents Precision = [Ra] IAI Recall: It is defined as the fraction of the relevant documents which has been retrieved Recall = |Ral A= & dog, dog, d, dog, dag, dag, dag, dag, R = { dq, d18, d32, d40, d29, d39, dq2, d28} 1A | = 8 | R | = 8

景 Ra至 = と dag, dag, dag, dag

|Ra | = 4.

10/3

Precision = 
$$\frac{4}{8} = \frac{1}{2}$$

Recall = 
$$\frac{|Ra|}{|R|}$$
 =  $\frac{|Ra|}{|R|}$  =  $\frac{1}{2}$ 

R-precision. To generate a single value rummany of is the ranking, where R is the total mamper of relevant downers for a current query. The R-precision measure is useful parameter for observing the behavior of an algorithm for each Endividual query is an experiment

Answersd Alg A - & da, d39, d38, d26, d, 3 Answer net alg B - } d28, d18, d40, d27, dq, d20 } P > {dq, d18, d32, d40, d19, d39, 092 1 828 3

$$RP_{A} = \frac{1}{8} = \frac{1}{2} = 0.26$$
 $RP_{B} = \frac{1}{2} = 0.5$ 

D, = cot and not are animals Dr = Animals chared their Poay

Q = cat chard not

2

(reg (i 1 )) N - Total no of doc ni contain the Keywork id = Log (N)

W: ); { } Freq(i,j) \* idf smld; , q) = 4; -9

( X Ni; x ( Siz) Ni, 9 2 # 3

3 document similarity 
$$Sim(D, Q)$$

$$Sim(Aj, Q) = \frac{dj}{dj} \cdot \frac{qj}{q}$$

$$Sim(Q, D) = \prod_{i=1}^{p} P(t; y_i) P(p)$$

$$P(t; y_i) P($$