Date...../..../..... Page..... Binary independent model is a language model (LM) and shares following simil the vector space model uses term requencies probabilities are normalisedanto length, similar to cosine normalisation in vertor space model.

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And (b) We use smoothering as even if a term doesn't occurrinthe narhular document, it can be a possibility to some consider.

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Ans
(a) (i) content selection to choose sentence to
extract from document.
(i) Information ordering to choose order to place them in the summary.
to place then in the summary.
(ii) Sentencerealization to simplify sentence
(IV) Removing redyndancy.

summarized text. (b) Tuhn uses weights for words that are salient & informative. In this way it finds weights of sentences & choose hop ones. Lex Renk is a graph based apperoach that uses page rank algorithm to find similarity of we sentences of score them

Beauge 1 -The quick brown fox jumped over the larzy dog Mgo 3 ummary: The quick brown dog jumped over Rouge = 9 = 1 Rouge2 = 5 = 0.625 Rouge) doesn't reflect the correctness of algo the summary as it is clear that the algo summerry means very different from above the This happens bez interchanging truo words doesn't affect Rouge as the relative order is lost Rouge 2 doesbetter than Rouge las it still wanter gives the quires correct order for a better score. Howevery it still isn't perfect. **Orchies**

(a) Likelihood ratio: · P(string Md) = 0.2 0.005 0.02 0.04 0.00) E 20 x 10 11 = 8×10-10 P(string | Md2) = 0.13 * 6.01 * 0.04 * 0.002 = 48 × 10 10 i-likelihood raho = 18 = = if B. R als washelf as I we stoned of I sook is a groupe land appeared in the (b) yes. Now P(M1) = 3 x 10-10 x 0.) -- Likelihood rahio = 1 () P(q |d1) = 1 x 1 + 3 x 2 |x (1 x 0 + 3) = 0.1349 x 0. 0 535 = \$7-2 × 10-3 P(q | d2) = (1 x 1 + 3 x 1) x (1 x 1 + 3 x 1) (2 x 5 4 14) $\frac{11}{10} \times \frac{29}{20.016}$ -. Doc 2 ha more probability