National University of Computer and Emerging Sciences, Lahore Campus



Course: Information Retrieval

Course Code:

CS4051

Program:

BS (Computer Sc'

Semester: Spring 2022

Section: BCS-4

Total Marks:

Assessment QUIZ - 4

Instruction/Notes:

Q1) How does stemming typically affect recall? Wny!

Recall is a where a means TP, relevant retrieved and b' means relevant rejected. When we do the stemming, the recall with increase because once we do the stemming on words more and more documents will be retrieved resulting initiarease of recall.

Q2) The table below shows how precision changes for the ranked documents returned for some query. For each of the document suggest if the user found it relevant or not. (5)

Precision	Relevant (Yes/No)	
1	Yes	
0.5	No	
0.66	Yes	
0.5	No	
0.4	No	



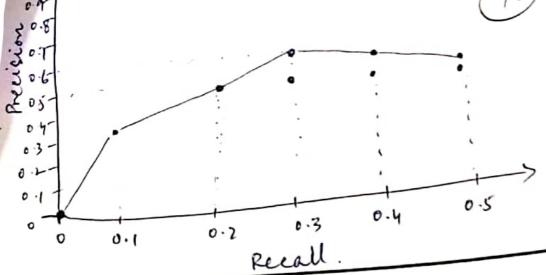
Q3) A user enters a query and gets the ranked documents as shown in the table below, he then gives his feedback on which document he found relevant, calculate precision and recall of this system. Assume total (20) relevant documents are 10.

a) Fill the ta	ble below. Precision	Recall
Document	Relevance	O	b
D4		0	c
D3		1/3	1/10
D5	+	7/1	2/10
D6	+	3/5	3/10
D1	+	3/6	3/10
D2	·	417	4/10
	+	4/8	4/10
	·	5/9	5/10
1	+	5/10	5/10
		1/10	

(10)

(10)

Also draw graph of precision against recall.



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