# START OF QUIZ Student ID: 97190441,Ramajayam,Jayathilaga

Topic: Lecture 7 Source: Lecture 7

What is the purpose of an inverted index? (1)

Topic: Lecture 6 Source: Lecture 6

In class, we saw a few topics that we were unable to identify. What could be a cause for such pointless topics (ie, how might we ensure that our topics are better? (2 reasons). (1)

Topic: Lecture 5 Source: Lecture 5

We often weight our matrices using something like PMI or TF-IDF. Do you think it would make sense to do this after applying SVD? Why or why not? (2)

Topic: Lecture 8 Source: Lecture 8

What is the reasonining behind substituting TF-IDF with Okapi BM25? (1)

Topic: Lecture 8 Source: Lecture 8

Why don't we use a higher-order language model to perform IR? (1)

Topic: Lecture 5 Source: Lecture 5

Why can we represent a rank-m matrix as the sum of m rank-1 matrices \*or\* the product of an n x m matrix and an m x n matrix (ie, what is matrix multiplication doing that we can take advantage of?)? Explain. (2)

Topic: Lecture 7 Source: Lecture 7

What is the benefit of evaluating boolean queries using set operations instead of loops? (1)

Topic: Lecture 6 Source: Lecture 6

In some ways, we could consider Beta distributions themselves to be an embedding of a document. Explain, and explain how we might be able to leverage that. (2)

Topic: Coding Source: Coding

Write a function that returns the most likely n documents given a term-document matrix, a smoothing parameter, and a query. (3)

# END OF QUIZ