

( 2 )

Ex./ML/04/2019

**OR**

2B. Explain probabilistic IR model. What is probabilistic ranking principle ? Deduce the ranking formula using Bayes rules. 3+3+9

3A. State your idea on Information Seeking. Describe 'Everyday Life Information Seeking' model as developed by Savolainen. 3+12

**OR**

3B. What are the purposes of evaluation of IR systems ? Define Recall and Precision. What are the problems with Recall and Precision measures ? What do you understand by Relevance ? Discuss different types of Relevance. 3+4+2+3+3

4. Write short note on any **one** : 5x1=5  
(a) Indexing languages  
(b) I R thesaurus  
(c) Information behaviour of Google generation

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**MASTER OF LIBRARY AND INFORMATION SCIENCE  
EXAMINATION, 2019**

**(1st Semester)**

**Information Retrieval - I**

**Paper : ML - 04**

Time : Two hours

Full Marks : 50

Answer **all** questions.

1A. What do you understand by Information Retrieval Systems ? Discuss the major functions of an IR system with a suitable diagram. What are the different components of an IR system ? 4+9+2

**OR**

1B. Distinguish between 'Citation' and 'Reference'. What is Citation Indexing ? What are its different parts. Name some online Citation Indexing services. Discuss any one of them. 3+2+3+2+5

2A. Give a mathematical definition of IR models. Explain Term Frequency (TF) and Inverse Document Frequency (IDF). What is document length normalization ? 4+8+3

(Turn over)