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Ex./ML/05/43/2017

**MASTER OF LIBRARY & INFORMATION SC. EXAMINATION, 2017**

(2nd Semester)

**Information Retrieval**

**Paper : ML - 05**

Time : Two hours

Full Marks : 40

2B. What is the basic idea behind the Page Rank algorithm ?  
What are hubs and authority pages ? How does the HITS  
algorithm use these concepts ? 3+3+4

3A. What do you understand by NLP ? What are the  
problems of NLP ? Give examples of some applications  
of NLP. 4+4+2

*OR*

3B. Describe different levels of language analysis. Convert  
the sentence "He ate the apple" into parse tree. What is  
Cross-Language Information Retrieval ? Why is it  
needed ? 5+2+2+1

4A. State your idea on Information Seeking. Describe  
'Everyday Life Information Seeking' model developed by  
Savolainen. 2+8

*OR*

4B. Write short notes on any **two** of the following : 5x2

- (a) Faceted search
- (b) Medline
- (c) Information need
- (d) Text categorization

The figures in the margin indicate full marks.

Answer **all** questions.

1A. What do you understand by 'Recall' and 'Precision' ?  
What are the limitations of Recall & Precision  
value ? Mention the important tracks of TREC  
evaluation. 4+2+4

*OR*

1B. Define 'Relevance'. Mention its different types. How do  
users judge relevance ? 2<sup>1</sup>/<sub>2</sub>+2<sup>1</sup>/<sub>2</sub>+5

2A. Draw a diagram of a Standard Web Search Engine  
Architecture. What is web crawling ? Explain  
briefly breadth-first search and depth-first search on  
trees. 4+3+3

*OR*

— X —

(Turn over)