

M. Tech.-II (Information Technology) (CBCS – 2015 Course) :

WINTER - 2018

SUBJECT: INFORMATION RETRIEVAL

Day: Tuesday
Date: 20/11/2018

Time: 11.00 AM TO 02.00 PM
Max. Marks: 60

W-2018-3145

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data, if necessary.
- 4) Use non-programmable **CALCULATOR** is allowed.
- 5) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION-I

Q.1 Define 'Information Retrieval'. Explain with neat diagram information retrieval process. **(10)**

OR

Q.1 Enlist goals of information retrieval and elaborate history of information retrieval. **(10)**

Q.2 Describe with suitable example inverted index generation. **(10)**

OR

Q.2 Explain with suitable example Boolean retrieval with binary representation tf-idf. **(10)**

Q.3 State and explain Zip's law with suitable example. **(10)**

OR

Q.3 Explain the process of query reformulation with suitable example. **(10)**

SECTION-II

Q.4 Describe spidering and directed spidering with the help of suitable example. **(10)**

OR

Q.4 Enlist and describe applications to information filtering and organization. **(10)**

Q.5 Explain K-means algorithm with an example. **(10)**

OR

Q.5 Enlist and explain applications of web search and information organization. **(10)**

Q.6 Describe collaborative filtering with suitable example. **(10)**

OR

Q.6 Describe content based recommendation of documents and products. **(10)**

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