Code: 9F00504c

MCA V Semester Regular & Supplementary Examinations October/November 2017
INFORMATION RETRIEVAL SYSTEMS
(For 2012, 2013, 2014 & 2015 admitted batches only)

Time: 3 hours   Max. Marks: 60

Answer any FIVE questions
All questions carry equal marks
*****

1   Describe in detail about the four functional processes of information retrieval systems with a neat block diagram.

2   Explain the stemming algorithm. Compare Lavins, Porter and Paice stemming process for the following text.
        Suchan analysis can reveal features that are not easily visible from the variations in the individual genes and can lead to a picture of expression that is more biologically transport and accessible to interpretation.

3   (a)   Write an algorithm for one pass term clustering in information retrieval system.
    (b)   Explain how thesaurus can be generated manually.

4   Draw a schematic diagram for information visualization process and explain the processes.

5   Explain the following metrics with example for information retrieval system performance:
    (a)   Precision, recall and F-score.
    (b)   True positive, false positive, true negative and false negative.

6   (a)   Discuss about performance measures in parallel and distributed IR.
    (b)   Write short note on latest trends and research issues in parallel and distributed IR.

7   Explain how indexing and searching can be done for images and videos.

8   Describe in detail about bibliographical systems.

*****