

Roll No.

Total Pages : 2

220409

May, 2019

MCA - 4th Semester

Web Technology and Information Retrieval (GEC-4C)

Time : 3 Hours]

[Max. Marks : 75

Instructions :

1. *It is compulsory to answer all the questions (1.5 marks each) of Part-A in short.*
2. *Answer any four questions from Part-B in detail.*
3. *Different sub-parts of a question are to be attempted adjacent to each other.*

PART-A

1. (a) What do you mean by Web server? (1.5)
- (b) Differentiate between Surface Web and Hidden Web. (1.5)
- (c) What do you mean by HTTP? (1.5)
- (d) What do you mean by wildcard queries? (1.5)
- (e) Explain the terms Precision and Recall. (1.5)
- (f) Differentiate between Information Retrieval Systems and DBMS. (1.5)
- (g) What is inversion in indexing process ? (1.5)
- (h) What do you mean by PageRank? (1.5)

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- (i) What do you mean by Bi-word Indexes? (1.5)
- (j) What is the difference between cellspacing and cellpadding attributes? (1.5)

PART-B

- 2. Explain in detail architecture of Search Engine. (15)

- 3. (a) Discuss HITS algorithm. (5)
(b) Write short note on :
 - (i) Focused Crawler
 - (ii) Increment Crawler (10)

- 4. Explain with the help of example how 'The extended Boolean model' is different from 'ranked retrieval'? (15)

- 5. Explain the use of n-grams. How n-grams is used in spelling error detection and correction? (15)

- 6. (a) Explain in detail Blocked sort based indexing with the help of example. (10)
(b) Explain Distributed Indexing in detail. (5)

- 7. Explain how modelling the distribution of terms can be done by Zipf's Law? (15)