SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Continuous Assessment Test - I, AUG- 2018

Course Code

: CSE3024

Duration

: 90 Minutes.

: 50

Course Name

: Web Mining

Max. Marks

Slot

F2

Answer ALL($5 \times 10 = 50 \text{ Marks}$)

 The Web has many unique characteristics, which make mining useful information and knowledge a fascinating and challenging task. Justify the statement with suitable example.

(10)

 Prepare a document object model (DOM) tree from following HTML page. Explain focused Crawler in detail with a neat diagram. Also mention how "soft strategy" differs from "hard-strategy".

<html>
<head>
<title>Here comes the DOM</title>
</head>
<body>
<ht2>Document Object Model</ht2>

This is a simple
<code>HTML</code>
page to illustrate the
DOM

</body>
</html>

a) Encode the decimal numbers 9, 10, and 11 using Elias Gamma, Elias Delta and Golomb (b=3 and b=10).

b) Using b= 10 decode this Golomb encoded sequence 1101001100001110. Also find the sequence of integers in each step. (5+5)

4. For the following table find the

a)TF coordinate matrix

b) IDF for all terms

c) TF-IDF MATRIX for all

documents(ignore any normalization)

d) Calculate cosine similarity and Euclidian

distance with given query vector q=(0,0,0,0.871,0.371) and rank the documents.

(3+1+2+4)

P	Terml	Term2	Term3	·Term4	Term5
DI	7	2	24	30	5
D2	0	40	10	3	0
D3	0	20	30	40	30
D4	2	3	5	1	0
D5	4	13	3	33	49
D6	100	12	2	54	1

5. Write short notes on

a) Spider trap

b) Inverted index

c) bag-of-words

d) link-cluster conjecture

e) Topical Locality and Cues

(2X5)