

Total No. of Questions : 10]

SEAT No. :

P3647**[4959]-1138**

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B.E.(Information Technology)**c: INFORMATION STORAGE AND RETRIEVAL
(2012 Course) (Semester-II)(Elective-III) (414463)***Time :2½Hours]**[Max. Marks : 70**Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data if necessary.*

Q1) a) Explain Luhn's idea in details. [5]

b) What is clustering? Explain the use of clustering in IR. [5]

OR

Q2) Clusters the documents using single pass clustering algorithm for the following example. Threshold value is 10 [10]

	Terms in document				
	T1	T2	T3	T4	T5
Doc 1	1	2	0	0	1
Doc 2	3	1	2	3	0
Doc 3	3	0	0	0	1
Doc 4	2	1	0	3	0
Doc 5	2	2	1	5	1

Q3) a) Explain Boolean model in detail [5]

b) Give the difference between suffix array and suffix tree. [5]

OR

P.T.O.

Q4) a) Explain the term precision and recall and calculate the same for the following example [5]

A set of relevant documents for query

$q = \{d3, d7, d8, d11, d14, d19, d23, d25\}$

A new retrieval algorithm returns following answer set

$= \{d1, d2, d3, d7, d9, d10, d14, d20, d23, d24, d25\}$

b) Explain the terms Harmonic mean, E measure, R precision, Precision histogram [5]

Q5) a) Explain GEMINI approach for multimedia IR. [9]

b) How are queries processed in distributed IR. [9]

OR

Q6) a) Write a note on MULTOS [9]

b) Describe multimedia data support in commercial DBMS. [9]

Q7) a) Discuss challenges involved in web searching. [8]

b) Explain crawler indexer architecture in details. [8]

OR

Q8) a) Write a note on characterizing the web [8]

b) What are meta crawlers? Explain with suitable example [8]

Q9) a) What is collaborative filtering? Discuss its advantages and disadvantages [8]

b) Explain semantic web in details [8]

OR

Q10) a) Explain the method for extracting data from text [8]

b) Explain Collecting and Integrating Specialized Information on the web. [8]

