Total No. of Questions : 6]

SEAT No. :

P151

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APR. - 16/BE/Insem. - 71

B.E. (Information Technology)

c - INFORMATION STORAGE AND RETRIEVAL

(2012 Course) (Elective - III) (414463) (Semester - II)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) ***Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.***
2) ***Neat diagrams must be drawn wherever necessary.***
3) ***Figures to the right indicate full marks.***
4) ***Assume suitable data, if necessary.***

Q1) a) Write difference between Data Retrieval and Information Retrieval. Define Index term. **[5]**

b) Explain Conflation algorithm with example. **[5]**

OR

Q2) a) Solve: **[6]**

1					
2	0.7				
3	0.8	0.9			
4	0.4	0.6	0.9		
5	0.3	0.5	0.8	0.8	
	1	2	3	4	5

Explain Graph theoretic approach for clustering and draw the cluster derived from the given similarity matrix. Threshold value 0.43. Calculate string, connected component, maximal complete subgraph.

b) Explain basic concept of Information Retrieval. Draw IR System block diagram. **[4]**

Q3) a) Explain Signature file structure in detail. **[5]**

b) Explain Vector model in detail. **[5]**

OR

P.T.O.

Q4) a) Define: [4]

i) Boolean Search.

ii) Serial Search.

iii) Cluster representative.

iv) Data independence.

b) Explain storage technique of Inverted file structure with example. [6]

Q5) a) Define precision and recall and alternative measures with example. [5]

b) What is ontology? How information is shared on ontology. [5]

OR

Q6) Write short note on:

a) Ontology creation. [5]

b) TREC. [5]

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