

Total No. of Questions : 10]

SEAT No. :

P4009

[5561]-716

[Total No. of Pages : 2

B.E. (Information Technology)
INFORMATION STORAGE & RETRIEVAL
(2015 Course) (414464B) (Semester - II) (Elective - III)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

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

- Q1)** a) Differentiate between data retrieval and information retrieval. [6]
b) List with definition different measures of association. [4]

OR

- Q2)** a) Compare Boolean and vector model. [6]
b) List and explain steps of conflation algorithm. [4]

- Q3)** a) Explain the terms Harmonic mean, E measure, R precision, Precision histogram. [5]
b) Explain basic concept for Information Retrieval. Draw IR system block diagram. [5]

OR

- Q4)** a) Dissimilarity matrix is given as follows. [5]

1						
2	0.6					
3	0.6	0.8				
4	0.9	0.9	0.7			
5	0.9	0.6	0.6	0.9		
6	0.5	0.5	0.9	0.5	0.5	
	1	2	3	4	5	6

Threshold 0.4, 0.6, 0.8, 0.9.

Apply single link algorithm and calculate cluster for above 6 objects.

- b) Explain signature structure in detail. [5]
- Q5)** a) What do you understand by multimedia query language? Explain various query predictors. [9]
b) Explain GEMINI approach for multimedia IR. [9]

OR

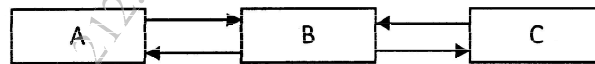
P.T.O.

- Q6)** a) Describe multimedia data support in commercial DBMS. [9]
b) Describe the architecture of distributed IR. [9]

- Q7)** a) What is web crawling? Explain techniques used by web crawlers to crawl the web. [8]
b) Write short note on web data mining. [8]

OR

- Q8)** a) Discuss the challenges involve in web search engine. [8]
b) What is page ranking? Calculate page rank of following web pages. Assume damping factor 7.0. [8]



- Q9)** a) Define Recommender system? Explain in brief collaborative filtering. [8]
b) Explain semantic web in detail. [8]

OR

- Q10)** a) Write a note on "Ontology languages for semantic web". [8]
b) Explain the method for extracting data from text. [8]

