Total No. of Pages: 02

P1382

## [3764] - 440

## B.E (Information Technology)

## INFORMATION RETRIEVAL

(2003 Course)

Time: 3 Hours] [Max. Marks: 100 Instructions to the candidates: Answer Question 1 or 2, 3 or 4, and 5 or 6 from section - I and Question 7 or 8, 9 or 10, and 11 or 12 from section - II Answers to the two sections should be written in separate books. 3) Neat diagrams must be drawn wherever necessary. 4) Figures to the right indicate full marks. 5) Assume suitable data, if necessary. SECTION - I Explain with the help of block diagram, typical IR system. Describe the 01) a) needs and concepts of information retrieval. Explain Single link algorithm. [8] b) OR You are developing a text processing system for use in an automatic (O2) a) retrieval system. Explain the following parts: Removal of high frequency words. ii) Suffix stripping. Detecting equivalent stems. What is cluster hypothesis? Explain graph theoretic method with an b) example. [8] Explain Signature File with example. Q3) a) [8] Explain the Fuzzy Set Model. b) [8] OR Explain the two ways of serial search retrieval using matching functions.[8] 04) a)

Explain the ring structures.

b)

[8]

Q5)	a)	Explain different evaluation measures for information retrieval system	ms.
			[10]
	b)	Explain Information Access Process. OR	[8]
Q6)	a)	Explain TREC document collection, tasks and Evaluation measure	es at
		TREC Conferences.	[10]
	b)	What are the different starting points for search interfaces.	[8]
		SECTION - II	
Q7)	a)	Discuss the following points with respect to Digital Libraries:	[8]
		i) DL architecture issues.	
		ii) Document models, representation and access.	
		iii) Prototypes, projects and interface standards.	
	b)	Write note on: online retrieval system.  OR	[8]
Q8)	a)	Describe issues regarding emerging information retrieval approaches related technologies.	and [8]
	b)	List and explain working of various search engines and their challen	
	U)	ist and explain working of various scarcif engines and their charles	[8]
			lol
Q9)	a)	Explain the automatic Feature Extraction.	[8]
	b)	Explain how images can be retrieved using image content as the basi- retrieval.	s for [8]
		OR	
010	()a)	Explain the One dimensional time series.	[8]
	b)	Write short note on: MULTOS.	[8]
Q11	()a)	Describe query processing in distributed IR systems.	[10]
	b)	Write a note on: Characterizing the Web.	[8]
Q12	?)a)		[10]
	b)	Explain Meta Searches with examples.	[8]