

Total No. of Questions : 6]

SEAT No. :

P1423

[Total No. of Pages : 2

BE/Insem./APR-259

B.E. (Information Technology)

INFORMATION STORAGE AND RETRIEVAL

(2015 Course) (Semester -II) (Elective - III) (414464B)

Time : 1 Hour]

[Max. Marks :30

Instructions to the candidates:

- 1) Solve Q.1 or Q.2, Q.3 Or Q.4, Q.5 or Q.6.
- 2) Figures to right indicate full marks.

- Q1) a) What is a document representative? Explain with a suitable example. [5]
b) Draw and explain IR system block diagram. [5]

OR

- Q2) a) Explain steps in conflation algorithm using a suitable example. [5]
b) Write a short note on XML data structures used in IR systems. [5]

- Q3) a) Find the similarity of the following query with documents - D1, D2, D3 using vector model. [5]

Query	Keywords	
Q	mouse, dog	
Document	Text	Terms
D1	mouse mouse bee	mouse bee
D2	dog bee dog hog hog dog mouse dog	mouse bee dog hog
D3	cat gnu dog eel fox	Cat dog eel fox gnu

- b) Show how single link clusters may be derived from the dissimilarity coefficient by thresholding it. [5]

OR

P.T.O.

- Q4)** a) Explain Latent Semantic Indexing with a suitable example. [5]
b) Compare Neural network-based retrieval and Fuzzy set retrieval methods. [5]

- Q5)** a) Define and explain following terms - Precision & Recall. [5]
b) Define and explain following terms - [5]
i) MRR
ii) NDCG

OR

- Q6)** a) Define and explain following concepts. [5]
i) Cross fold validation.
ii) User oriented measures for performance evaluation.
b) Define and explain following concepts related to visualization. [5]
i) User relevance judgement.
ii) Interface support for search process.

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