

B.E - Sem - VII (C Scheme) - Dec - 24 - Computer

Sub Code - 42178

Duration: - 3 Hours

Marks: 80 Marks

NB: - Question 1 is compulsory

Solve any four questions from Question no. 1.

Solve any three questions from the remaining.

- 1 a. Define information retrieval and elaborate on the taxonomy of Information retrieval Model. 20
b. Explain multimedia indexing approach.
c. Explain the process of Structured Text retrieval model.
d. Specify the significance of User Relevance feedback in an IR system.
e. Specify the need for pattern matching in Information retrieval.
- 2 a. Draw the taxonomy of IR models and explain any one IR modeling technique. 10
b. Explain query processing in context of distributed IR 10
- 3 a. Compare and contrast between automatic local analysis and global analysis? Elaborate on any one with an example 10
b. Define what is meant by an Inverted file with an example. Explain it with a neat Diagram. 10
- 4 a. Elaborate on how the ranked and unranked retrieval sets are evaluated. 10
b. Explain the method for calculating tf and idf in a vector model. Further elaborate the need for tf and idf in an information system 10
- 5 a. With neat diagrams, elaborate on the role of suffix array and suffix tree in any given information retrieval system. 10
b. Specify what is meant by Latent Semantic Indexing Model. Further, mention the advantages of Latent Semantic Indexing Model 10
- 6 Write short notes on any two 20
 - a. Significance of tf-idf weight
 - b. Flat browsing vs Hypertext Browsing model.
 - c. Parametric and zone indices
 - d. Rocchio method for query expansion.