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Sub Code:NIT061

Paper Id: 

113621
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Roll No: 

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**B.Tech**  
**Sixth Semester Examination 2017-18**

**( INFORMATION RETRIEVAL & MANAGEMENT )**

*Time:3 Hours**Total Marks:100***Note:** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION - A**

*1.Attempt all questions in brief.**2 x 10 = 20*

- a) What do you mean by the term Information Retrieval.
- b) List various types of Information.
- c) Explain Cluster Hypothesis.
- d) Describe various design issues of crawl module.
- e) What is dendograms also explain its uses.
- f) Discuss the term probabilistic indexing,
- g) State query routing problem.
- h) Difference between SIMD & MIMD.
- i) What is Prototype ? Explain.
- j) Discuss various performance measures of Parallel Computing.

**SECTION – B**

*2.Attempt any three of the following:**10 x 3 = 30*

- a) Briefly describe information retrieval system with the help of block diagram.
- b) What is Collaborative filtering? Discuss its advantages and disadvantages.
- c) What is multimedia information retrieval ? Explain query specification query processing with respect to multimedia information retrieval.
- d) Discuss MIMD architecture with respect to multitasking in parallel IR.
- e) Discuss the challenges in IR system and give your views to overcome that.

**SECTION-C**

*3- Attempt any one parts of the following :**10x1=10*

- a) Explain OPACs and state the limitations of OPACs.
- b) Define Ontology and taxonomy ? Explain in detail.

**4. Attempts any one part of the following:****10x1=10**

- a) Explain Collection partitioning and Source selection with respect to distributed IR.
- b) Give brief about how search engine works.

**5. Attempt any two parts of the following:****10x1=10**

- a) Explain various challenges for effective delivery of digital library architecture.
- b) Explain inverted index file. How it can be used in information retrieval.

**6. Attempt any one part of the following:****10x1=10**

- a) List out the various techniques in automatic term clustering. Explain.
- b) Explain the historical development of information systems.

**7. Attempt any one part of the following :****10x1=10**

- a) Explain the concept of text search with relevant examples.
- b) In what way is the signature approach advantageous over other text retrieval methods?  
Classify the signature based methods.

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