Printed Pages : 1　　　　**Roll No.** ☐☐☐☐☐☐☐☐☐☐☐　　　**NIT061**

B.TECH.
THEORY EXAMINATION (SEM–VI) 2016-17
INFORMATION RETRIEVAL AND MANAGEMENT

Time : 3 Hours　　　　　　　　　　　　　　　　　　　　　　*Max. Marks : 100*

Note : *Be precise in your answer. In case of numerical problem assume data wherever not provided.*

SECTION – A

1. **Explain the following:**　　　　　　　　　　　　　　　　　**10 x 2 = 20**
　(a) How Rochhio's classification method is constructed?
　(b) State the uses of dendograms and give a neat sketch of hierarchical clustering dendograms.
　(c) Draw precsion recall curves.
　(d) Difference between OPAC and IRs.
　(e) Compare SIMD and MIMD.
　(f) Give the performance measures of parallel computing.
　(g) Show the diagrammatic view on parallel multitasking on a MIMD machine.
　(h) Write about query routing problem.
　(i) Difference between local and global inverted file.
　(j) Give the design issues of crawl module.

SECTION – B

2. **Attempt any five of the following questions:**　　　　　　　　**5 x 10 = 50**
　(a) Analyze the challenges in IR system and give your suggestion to overcome that.
　(b) In what way is the signature approach advantageous over other text retrieval methods? Classify the signature based methods.
　(c) Elaborate the various challenges for effective delivery of digital library architecture.
　(d) Narrate MIMD architecture with respect to multitasking in parallel IR.
　(e) Give brief about how search engine works.
　(f) What is multimedia IR? Discuss steps on which of data retrieval relies.
　(g) Give a brief note on query processing in distributed IR system.
　(h) Explain the historical development of Information Systems. Discuss the sophistication in technology in detail.

SECTION – C

Attempt any two of the following questions:　　　　　　　　　　**2 x 15 = 30**
3. Elaborate OPACs and state the limitation of OPACs.
4. Take diet expert system as a case study and give all the data required for storing. Explain various methods to retrieve data efficiently.
5. Give brief about MIMD architecture with a neat sketch.