

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 precision 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.