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**EIGHTH SEMESTER B.TECH. [ENGINEERING] (09 SCHEME) DEGREE  
EXAMINATION, APRIL 2016**

**CS/PTCS 09 804 L20—INFORMATION RETRIEVAL**

Time : Three Hours

Maximum : 70 Marks

**Part A**

- I. (a) Compare and contrast information and data.  
(b) What are the design principles of information retrieval ?  
(c) How to evaluate the interactive system ?  
(d) What are the different types of query languages used in retrieval evaluation ?  
(e) Define Metadata ?

(5 × 2 = 10 marks)

**Part B**

- II. (a) Discuss about query term hits within document content ?  
(b) How to use the hyperlink to organize the retrieval results ?  
(c) How semi-automated agent helps in fetching relevant information from background ?  
(d) Write short notes on retrieval evaluation system.  
(e) Discuss about the properties of multimedia languages.  
(f) Explain briefly about ranking system.

(4 × 5 = 20 marks)

**Part C**

- III. (a) Explain in detail the basic concepts of retrieval process.

*Or*

- (b) Discuss in detail any *two* of the classical IR models with examples.

- IV. (a) Explain TERC data set with neat illustration to show its performance evaluation ?

*Or*

- (b) Explain query operations in detail with examples.

- V. (a) Discuss the following search techniques in detail.

- (i) Suffix trees.  
(ii) Pattern matching.

*Or*

**Turn over**

(b) Explain in detail different types of multimedia languages with its performance evaluation metrics?

VI. (a) In detail explain about feature extraction methods with examples.

*Or*

(b) How to characterize and measure the web ? Explain with all its features.

(4 × 10 = 40 marks)