Vishwakarma Institute of Information Technology
Department of Computer Engineering

Academic Year – Sem I (2015-16)

Class : ME (Computer Engineering)

510105B : Elective – I (Information Retrieval and WEB Mining)

Marks : 50

Time : 3 Hrs.

Date : 22 Dec 2015

Instructions for the students

1. Any THREE questions have to be attempted from Q1 to Q6

2. Q7 and Q8 are compulsory

3. Each question carry 10 marks

Q1.

a. Explain the problems with the vector space model. [4 Mks]

b. Write on index construction with different techniques [4 Mks]

c. Write note on TF-IDF. [2 Mks]

Q2.

a. Explain different Language Models for Information Retrieval. [4 Mks]

b. Explain Latent Semantic Indexing. [4 Mks]

c. Write a note on Pseudo relevance feedback. [2 Mks]

Q3.

a. What is Information Extraction? Explain with example [5 Mks]

b. What is Web Content mining (WCM). [5 Mks]

Q4.

a. Elaborate process of Information Filtering.[5 Mks]

b. Explain LIBRA System as an example of Recommendation System. [5 Mks]

Q5.

a. Write a note on [4 + 4 Mks]

      i.   Multimedia Retrieval

     ii. Pattern matching in IR

b. Classification is a supervised way of learning. Explain. [2 Mks]

Q6.

    a. Explain in detail process of patent search. [4 Mks]

    b. Discuss security issues in IR and web mining. [3 Mks]

    c. Write a note on Personalized PageRank. [3 Mks]

Q7.

a. Elaborate in detail methods of personalization [5 Mks]

b. Give various approaches To Transfer Learning [5 Mks]

Q8.

a. Explain system architecture of digital library [5 Mks]

b. Highlight different feature extraction techniques in CBIR [5 Mks]

***** **All The Best** *****