Hall Ticket No | | | | | | | | | | | Question Paper Code: BCS201

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

M.Tech II Semester End Examinations (Regular) - July, 2017

Regulation: IARE–R16

WEB INTELLIGENT AND ALGORITHMS

(Computer Science and Engineering)

Time: 3 Hours **Max Marks: 70**

Answer ONE Question from each Unit
All Questions Carry Equal Marks
All parts of the question must be answered in one place only

UNIT – I

1. (a) Briefly explain the basic elements of intelligent applications. **[7M]**
   (b) What are the problems in page ranking algorithm and discuss the solution for these page ranking problems. **[7M]**
2. (a) Explain about the applications that are benefited from intelligent applications. **[7M]**
   (b) Briefly discuss the effect of teleportation between web pages. **[7M]**

UNIT – II

3. (a) Write the pseudocode for Predicting the rating of an item for a user. **[7M]**
   (b) Briefly discuss the key ideas behind content-based similarities. **[7M]**
4. (a) Explain different categories of recommendation engines. **[7M]**
   (b) Write a brief note on concepts of distance and similarity in recommender systems. **[7M]**

UNIT – III

5. (a) Give the distinction between content-based and collaborative-based sources of metadata. **[7M]**
   (b) Explain different Categories of Tags based on how they are generated. **[7M]**
6. (a) Illustrate basic strategy used to Combine the term vectors from a number of documents to form a tag cloud. **[7M]**
   (b) Illustrate different steps involved in building a tag cloud. **[7M]**

UNIT – IV

7. (a) Explain different method commonly used for neighbourhood-based computation. **[7M]**
   (b) What is hybrid recommendation system? Explain Seven hybridization techniques. **[7M]**
8. (a) What is constraint based recommendation system? discuss the applications of constraint based recommendation system. **[7M]**
   (b) Justify the statement "Product Search Engines *Are Not Good* Product Recommendation Engines". **[7M]**

UNIT – V

9. (a) What are decision trees? List the advantage of decision trees. **[7M]**

   (b) Briefly discuss about adwords problem with an example. **[7M]**

10. (a) Differentiate between online and offline algorithms, discuss the examples for each algorithms. **[7M]**

    (b) Briefly discuss some of the challenges for the Semantic Web. **[7M]**

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