or suman Sale

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -3 EXAMINATION- May-2018

M.Tech IV Semester

COURSE CODE: 11M1WCI431

MAX. MARKS:35

COURSE NAME: ADVANCED WEB MINING

COURSE CREDITS: 3

MAX. TIME: Two Hours

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

- What is optimization condition of k-clustering problem? How k-means algorithm satisfy the convergence and optimality?
- 2. What is distance based and probability based model for machine learning. Explain K-NN and Naive Bayes in this regards. [5]
- 3. Explain the layered architecture for semantic web. What is the role of RDF, RDFS, OWL and OWLS in formation of semantic web. [5]
- Doc 1 new home sales top forecasts
- Doc 2 home sales rise in July
- Doc 3 increase in home sales in July
- Doc 4 July new home sales rise
- Doc 5 breakthrough drug for schizophrenia
- Doc 6 new schizophrenia drug
- Doc 7 new approach for treatment of schizophrenia
- Doc 8 new hopes for schizophrenia patients
- 4. Using cosine similarity and k-means algorithm cluster the above documents into 2 groups. [5]
- 5. Consider the documents {Doc1, Doc2, Doc3, Doc5, Doc6, Doc7} as training documents classify {Doc4, Doc8} using k-nearest neighbor method. [5]
- 6. Write short note on following:

[10]

- a. Resources in semantic web.
- b. Domain ontology.
- c. Centrality measure.
- d. Support vectors.
- e. Internet vs. WWW.