Exam.Code:1006 Sub. Code: 7369

2063

M.E. (Information Technology) Second Semester

MEIT-2108: Social Network Analysis

Time allowed: 3 Hours

Max. Marks: 50

[10]

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

I. Answer the following:a. What is Sociaogram? b. Define multiplicity of a line? For what purpose it is used? c. Write short note on "Node Classification in Social Networks". d. Define Personalized Pagerank. Why and how it can be used. e. What is the use of Dictionary in Sentiment Analysis? (5x2)UNIT - I II. a How can be a matrix used to represent data? Discuss with the help of suitable example. [5] b What is Inclusiveness? What is its relevance in graph theory? [5] III. a. Compare Local and Global Centrality with the help of suitable example. [5] b. Discuss the concept of graph reduction with the help of a suitable example. [5] IV. Discuss any one Clustering algorithm in detail. Design a suitable data set yourself and implement the clustering algorithm on it. [10] UNIT - II V. a. Discuss various methods to handle missing and noisy data with the help of suitable example. [5] b. What is Sampling? How sampling can affect data analysis? Explain with the help of suitable example. [5] VII . Elaborate RandomWalk based Proximity Measures in detail. [10] VII. Explain the relevance of opinion mining in various domain in detail. How Opinion Mining can be performed. Is it useful in Business Intelligence and Elections? Justify your answer.