

JK LAKSHMIPAT UNIVERSITY

M. TECH 3RD SEMESTER, TERM III - EXAM, DECEMBER 2021

SUBJECT: LARGE SCALE GRAPH ANALYTICS

MARKS: 20

CODE: CS2201

TIME: 1 HOUR 30 MINUTES

[MARKS DISTRIBUTION: 3 x 2 + 4 + 6 = 20]

1. Write short notes on the following:

- I. Power law distribution
- II. Six degrees of freedom
- III. Damping factor in Pagerank

2. Explain with equations the closeness centrality and between-ness centrality.

Write the difference between above centrality measures.

3. Describe in details the Pagerank algorithm, Incorporate equations and diagrams in your answer, derive its matrix equation.