



Notice for the PhD Viva Voce Examination

Ms Divya Antoney (Registration Number: 1881507), PhD scholar at the School of Sciences, CHRIST (Deemed to be University), Bangalore will defend her PhD thesis at the public viva-voce examination on Thursday, 16 May, 2024 at 9.30 am in Room No. 044, Ground Floor, R & D Block, CHRIST (Deemed to be University), Bengaluru - 560029.

- Title of the Thesis** : **A Study on Labeling Problems in Signed Graphs**
- Discipline** : **Mathematics**
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The members of the Research Advisory Committee of the Scholar, the faculty members of the Department and the School, interested experts and research scholars of all the branches of research are cordially invited to attend this open viva-voce examination.



Registrar

Place: Bengaluru
Date: 13 May 2024

ABSTRACT

A signed graph can be considered as a weighted graph G ; that is, edges of G have been given the weights $+$ and $-$. We initiate a study on S -cordial, total S -cordial, C - labeling and total C -cordial labelings. We define two labelings of a properly colored graph, namely parity labeling of a properly colored graph, product labeling of a properly colored graph and initiate a study on them.

Keywords: signed graph, parity labeling of a properly colored graph, chromatic rna number, product labeling of a properly colored graph, frustration index of a graph, color product rna number, S-cordial signed graph, total S-cordial signed graph, C- cordial signed graph, total C-cordial signed graph

Publications:

1. D. Antoney, T. A. Mangam and M. Acharya, "C-cordial labeling of line Signed Graphs-1", AIP Conference Proceedings, 2261(1), 1-7 (2020).
2. D. Antoney, T. A. Mangam and M. Acharya, "Signed graphs from proper coloring of graphs-1", 3c technologla, 12(2), 148-161, 2023.
3. D. Antoney, T. A. Mangam and M. Acharya, "Chromatic rna number of operations on graphs", Informatica, 34(5), 39-48, 2023.