

Square Product Labeling of Cactus Graphs

Keerthi G. Mirajkar* and Priyanka G. Sthavarmath

Department of Mathematics, Karnatak University's Karnatak Arts College,
Dharwad- 580001, Karnataka, India

*Corresponding Author

ABSTRACT

A graph G is said to be square product labeling if there exists a bijection f from $V(G)$ to $\{1, 2, 3, \dots, p\}$ which induces f^* from $E(G)$ to N defined by $f^*(uv) = f(u)^2f(v)^2$ is injective for each $uv \in E(G)$, for which the resulting edges are distinctly labeled. G is considered to be a square product graph if it permits a square product labeling. In this article, the results are obtained on square product labeling for cactus graphs.

Keywords: Square Sum Labeling (SSL), Square Product Labeling (SPL), Cactus Graph, and Sunlet Graph.

