Abstract

A \((p, q)\) connected graph is edge-odd graceful graph if there exists an injective map \(f : E(G) \rightarrow \{1, 3, 5, \ldots, 2q-1\}\) so that induced map \(f^+: V(G) \rightarrow \{0, 1, 2, 3, \ldots, (2k-1)\}\) defined by \(f^+(x) = \frac{f(xy)}{2k}\) (mod \(2k\)), where the vertex \(x\) is incident with other vertex \(y\) and \(k = \max\{p, q\}\) makes all the edges distinct and odd. In this article, the edge-odd gracefulness of \((P_2 \cup P_n) \cup P_n\) \([n\) copies of doors\]
Graph of Cartesian Product of $S_m$ and $S_n$ ", The Global Journal of Pure and Applied Mathematics of Mathematical Sciences, 1, No-2 (July-Dec 2008b), 117-120.


**Index Terms**

Computer Science  Applied Mathematics

**Keywords**

Graceful Graph  Edge-odd graceful labeling  Edge-odd Graceful Graph