SOME RESULTS ON GRACEFUL LABELING FOR DOUBLE STEP GRID RELATED GRAPHS

V. J. KANERIA[1], H. M. MAKADIA[2] AND R. V. VIRADIA[3]
[1] Department of Mathematics,
Saurashtra University, Rajkot-360005, India
[2] Govt. Engineering College, Rajkot-360005, India
[3] A. D. Patel Institute of Technology, V V Nagar-388121, India

Abstract

In this paper we investigated some double step grid DSt_n related families with their graceful labeling. We obtained graceful labeling for open star of double step grid graph $S(t \cdot DSt_n)$ and one point union for path of double step grid graph $P_n{}^t(tn \cdot DSt_m)$. We also obtained graceful labeling for path union of cycle C_m ($m \equiv 0 \pmod 4$) with double step grid graph and by joining $C_m{}^+$ ($m \equiv 2 \pmod 4$) and DSt_n with a path of arbitrary length.

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