Super edge-magic total labeling of banana tree

Muhammad Hussain¹, Edy Tri Baskoro², Slamin³

¹ School of Mathematical Sciences, GC University, 68-B New Muslim Town, Lahore Pakistan, mhmaths@yahoo.com

² Combinatorial Mathematics Research Group, Faculty of Mathematics and Natural Sciences, Institut Teknologi Bandung Jl. Ganesa 10 Bandung 40132, Indonesia, ebaskoro@math.itb.ac.id

³ Mathematics Education Study Program, Universitas Jember Jl. Kalimantan 37 Jember, Indonesia, slamin@unej.ac.id

Abstract. Let $G_1, G_2, ..., G_n$ be a family of disjoint stars. The tree obtained by joining a new vertex a to one pendant vertex of each star is called a *banana tree*. In this paper we consider the super edge magic total labeling of *banana tree* that has not been covered by previous results.