SEMT labeling of disjoint union of subdivided stars and paths

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Abstract: Let Γ be a graph with p vertices and q edges. An edge magic total (EMT) labeling on a graph Γ is a one-to-one function $\psi : V(\Gamma) \cup E(\Gamma) \to \{1, 2, ..., p+q\}$ with the property that for each edge $uv \in E(\Gamma)$, $\psi(u) + \psi(uv) + \psi(v) = c$, where c is a constant. An edge magic total (EMT) labeling is called super edge magic total (SEMT) labeling if the smallest numbers are given to the vertices. In this paper, we study the existence of super edge magic labeling total (SEMT) labeling of disjoint union of paths and subdivided stars.

Keywords : Path; subdivided star; magic labeling.