# Even-odd Harmonious Labeling of Some Graphs

Dhvanik Zala, Narendra Chotaliya, Mehul Chaurasiya

*Abstract: Let $G = (V, E)$ be a graph, with $n = |V(G)|$ and $n = |E(G)|$. An injective mapping $f: V(G) \to \{1, 2, \ldots, 2m-1\}$ is called an even-odd harmonious labeling of the graph $G$, if $\exists$ an induced edge mapping $f^*: E(G) \to \{0, 2, 4, \ldots, 2(n-1)\}$ such that (i) $f^*$ is bijective mapping (ii) $f^*(e = pq) = (f(p) + f(q))(\bmod 2n)$. The graph acquired from this labeling is called even-odd harmonious graph. In this paper, we discovered some interesting results like H-graph, comb graph, bistar graph and $< e_{1,1}^{(2)}, S_1^{(3)}, S_1^{(3)} >$ graph for even-odd harmonious labeling.*

*Keywords: Comb graph, Even-odd harmonious labeling, H-graph, Injective mapping*

## I. INTRODUCTION

Graph labeling is an engrossing and sizable research in the arena of graph theory. It trades in how vertices and edges of a graph are labelled corresponding to certain mathematical condition[1]. From Galian[5], the neoteric research development in the sphere of graph labeling is taken. The pioneer of graph labeling was A. Rosa[10]. Books of Harary[2] and D.B.west[8] are being used for the ideas and basic knowledge. The harmonious graph have instigated [3] in 1980. Z.liang etl[8] set forth the odd harmonious graphs in 2009 and in 2011 P.B.sarasija etal [10] investigated the even harmonious graphs. Further Adalin Beatress and Sarasija in [2] set forth the even odd harmonious graphs. We have manifested distinct graphs, as we have collected distinct types of graphs in forms of even - odd harmonious labeling.

## II. BASIC TERMINOLOGY

**Definition[6] 2.1:** A graph $G = (V(G), E(G))$ with $n$ edges is called a harmonious, if there is an injective function $f: V(G) \to Z_n$ such that when each edge $uv$ is alloted the label $(f(u) + f(v))(\bmod n)$, the resulting edge labels are different. When the graph G is tree, exactly one edge label may be used on two vertices.

**Definition[7] 2.2:** Let $G = (V, E)$ be a graph, with $n = |V(G)|$ and $n = |E(G)|$, $f: V(G) \to \{1, 3, 5, \ldots, 7m-1\}$ is said to be an even-odd harmonious labeling of the graph G if

an induced edge mapping $f^*: V(G) \to \{0, 2, 4, \ldots, 2(n-1)\}$ such that (i) $f^*$ is bijective mapping (ii) $f^*(e = pq) = (f(p) + f(q))(\bmod 2n)$. The graph acquired from this labeling is called even-odd harmonious graph.

**Definition[8] 2.3:** The H-graph of a path $P_n$ is the graph secured from two copies of path $P_n$ with vertices $v_1, v_2, u_3, \ldots, u_n$ and $v_1, v_2, v_3, \ldots, v_n$ by attaching the vertices $u_{\frac{n+1}{2}}$ and $v_{\frac{n+1}{2}}$ if $m$ is odd and the vertices $u_{\frac{n}{2}+1}$ and $v_{\frac{n}{2}}$ if $m$ is even.

**Definition[8] 2.4:** A comb graph is a graph obtained by attaching a single pendent edge to each vertex of a path. The comb graph is defined as $P_n \odot K_1$. Where $P_n = \{v_1, \ldots, v_m\}$ be the path with $m$ vertices which contains $2m$ vertices and $2m - 1$ edges.

**Definition[9] 2.5:** The bistar graph $B_{m,n}$ is a graph acquired from a path $P_2$ by attaching the root of stars $S_m$ and $S_n$ at the terminal vertices of $P_2$, the bistar graph is denoted by $B_{m,n}$.

**Remark:** In this paper, we use "EOHL" instead of "even-odd harmonious labeling", for the simplicity.

## III. EVEN-ODD HARMONIOUS LABELING OF A CYCLIC GRAPH

**Theorem 3.1:** The H-graph of path $P_n$ is an even-odd harmonious graph.

**Proof:** Let $G = P_n$ be the H-graph. Let $u_1, u_2, \ldots, u_n, v_1, v_2, \ldots, v_n$ be the vertices of graph G and

$$E(G) = \{u_i u_{i+1}, v_i v_{i+1} : 1 \le i \le n-1 \}$$
$$\cup \{u_{\frac{n+1}{2}} v_{\frac{n+1}{2}} : n \equiv 1 (\bmod 2), u_{\frac{n}{2}+1} v_{\frac{n}{2}} : n \equiv 0(\bmod 2)\}$$

Note that, $p = |V(G)| = 2n$ and $q = |E(G)| = 2n - 1$. Define an injective function $f: V(G) \to \{1, 3, 5, \ldots, 4n - 1\}$ such that

**Case-1:** When $n \equiv 1(\bmod 2)$

$$f(u_i) = \begin{cases} i & : i \equiv 1(\bmod 2) \\ 2n + i - 1 & : i \equiv 0(\bmod 2) \end{cases} \quad \text{and}$$

$$f(v_i) = \begin{cases} 3n + i - 1 & : i \equiv 1(\bmod 2) \\ n + i & : i \equiv 0(\bmod 2) \end{cases}$$

**Case-2:** When $n \equiv 0(\bmod 2)$

$$f(u_i) = \begin{cases} i & : i \equiv 1(\bmod 2) \\ 2n + i & : i \equiv 0(\bmod 2) \end{cases} \quad \text{and}$$

$$f(v_i) = \begin{cases} 2n - i & : i \equiv 1(\bmod 2) \\ 4n - i + 1 & : i \equiv 0(\bmod 2) \end{cases}$$

and an induced edge function $f^*: E(G) \to \{0, 2, 4, \ldots, 4n - 4\}$ such that

**Case-1:** When $n \equiv 1(\bmod 2)$
$$f^*(u_i) = f^*(u_i u_{i-1}) = (2n + 2i)(\bmod 2q), 1 \le i \le n-1$$

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web marijuana maven ed rosenthal brings another new cannabis calendar to the wild weed s many fans each month features a spectacular portrait by a world class photographer of a different marijuana varietal in full vibrant flower the resins look good enough to roll up and the full plant shots are enough to make any garden grow green with envy