Abstract

Let \( G(V,E) \) be a graph with \( p \) vertices and \( q \) edges. A graph \( G(p,q) \) is said to be a Beta combination graph if there exist a bijection \( f: V(G) \to \{1,2,\ldots,p\} \) such that the induced function \( B_f: E(G) \to \mathbb{N} \), \( \mathbb{N} \) is a natural number, given by \( B_f(uv) = \), every edges \( uv \in G \) and are all distinct and the function \( f \) is called the Beta combination labeling of \( G \) [8]. In this paper, we prove quadrilateral snake \( Q_n \), double triangular snake, alternate triangular snake \( A(T_n) \), alternate quadrilateral snake \( A(Q_n) \), helm \( H_n \), the gear graph, \( \text{Comb } P_n \cap K_1 \), the graph \( C_n \cap K_1 \) and the diamond graph are the Beta combination graphs.

References

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**Index Terms**

Computer Science  
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**Keywords**

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