$V(G)$	Vertex set of G.
$E(G)$	Edge set of G.
$\|G\|$	Number of vertices in G or order of G.
$\delta(G)$	Minimum degree of G
$pen(G)$	Number of pendant vertices in G
$rc(G)$	Rainbow connection number of G
$d(u, v)$	Distance between vertices u and v
$ecc(v)$	Eccentricity of v
$diam(G)$	Diameter of G
$rad(G)$	Radius of G
$\gamma_c^k(G)$	Connected k-step domination number of G
$\gamma_c(G)$	$\gamma_c^1(G)$, Connected domination number of G
$N^k(S)$	Set of all vertices at distance exactly k from set S
$N^k(v)$	$N^k(\{v\})$
$N(S)$	$N^1(S)$, Neighbourhood of S
$N(v)$	$N^1(\{v\})$, Neighbourhood of v
$G[S]$	Induced subgraph of G on S