

COMPUTING OF SOME DEGREE BASED TOPOLOGICAL INDICES OF $K_M \odot K_N$

Senthil Amutha R¹, Chitradevi R², Babysuganya K³ & Sivasankar S⁴

¹Associate Professor, Department of Mathematics, Sree Saraswathi Thyagaraja College, Pollachi-642107, Tamilnadu, India

²Research Scholar, Department of Mathematics, Sree Saraswathi Thyagaraja College, Pollachi-642107, Tamilnadu, India

³Research Scholar, Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi-642001, Tamilnadu, India

⁴Associate Professor, Department of Mathematics, Nallamuthu Gounder Mahalingam College, Pollachi-642001, Tamilnadu, India

Received: 12 Mar 2025

Accepted: 18 Mar 2025

Published: 22 Mar 2025

ABSTRACT

In this paper, we study some degree-based topological indices, such as, first Zagreb index ($M_1(G)$), second Zagreb index ($M_2(G)$), third Zagreb index ($M_3(G)$), Hyper-Zagreb index ($HM(G)$), Sigma index ($\sigma(G)$), Sombor index ($SO(G)$), Forgotten index ($F(G)$), SK index, SK_1 index and SK_2 index of $K_m \odot K_n$

MSC: 05C07, 05C10.

KEYWORDS: Zagreb Indices, Hyper-Zagreb index, Sigma index, Sombor index, Forgotten index, SK index, SK_1 index, SK_2 index and Corona product.