



Derivative Free Algorithm Using Five Point Formula for Solving Nonlinear Models

Aslam Zaib¹, Zahoor Ahmed Baloch², Waseem Asghar Khan³,

¹Directorate of ORIC, Balochistan UET Khuzdar, Pakistan

²Department of Electrical Engineering, Balochistan UET Khuzdar, Pakistan

³Department of Basic Sciences, Balochistan UET Khuzdar, Pakistan

Corresponding Email: profzaib@gmail.com

Abstract—In this paper, we introduce and analyze a new third-order derivative free algorithm for the solution of nonlinear equations. Numerical examples show efficiency and performance of this new algorithm. This new algorithm may be viewed as an alternative of the known methods.

Keywords—Efficiency, Convergence analysis, Root finding algorithm, Numerical examples