

**CONTRIBUTIONS TO THE OSCILLATORY AND
ASYMPTOTIC BEHAVIOR OF NONLINEAR NEUTRAL TYPE
DIFFERENCE EQUATIONS**

Thesis submitted to
PERIYAR UNIVERSITY, SALEM
for the award of the Degree of

**DOCTOR OF PHILOSOPHY
IN MATHEMATICS**

By
G.AYYAPPAN

Under the guidance of
Major Dr.R.ARUL



**DEPARTMENT OF MATHEMATICS
KANDASWAMI KANDAR'S COLLEGE
VELUR (NAMAKKAL) – 638 182
TAMILNADU, INDIA**

MAY 2013