## Declaration

I hereby declare that:

- (i) the thesis comprises only my original work towards the PhD except where indicated,
- (ii) due acknowledgement has been made in the text to all other materials used,
- (iii) this work has not formed the basis for the award of any degree, diploma, fellowship, associateship or similar title of any University or Institution.

Pathak Niraj Markandbhai Department of Mathematics Faculty of Science The M. S. University of Baroda Vadodara - 390 002