

## LIST OF CONTENTS

| Chapter                                                         | Page |
|-----------------------------------------------------------------|------|
| I INTRODUCTION .....                                            | 1    |
| II PRELIMINARIES .....                                          | 3    |
| III GENERAL CRITERIA AND CRITERIA INVOLVING<br>CHARACTERS ..... | 15   |
| General criteria .....                                          | 15   |
| Criteria involving characters .....                             | 20   |
| IV CRITERIA FOR SPECIAL FORMS OF QPP'S .....                    | 27   |
| Linearized polynomials .....                                    | 27   |
| Monomials and binomials .....                                   | 39   |
| Other forms .....                                               | 41   |
| V NUMBER OF QPP'S FIXED DEGREE .....                            | 43   |
| VI CONCLUSION .....                                             | 50   |
| REFERENCES .....                                                | 54   |
| BIOGRAPHY .....                                                 | 57   |