CONTENTS

ABSTRACT ........................................ 1 - ix
INTRODUCTION ..................................... 1 - 5
REVIEW OF LITERATURE ............................ 6 - 43
MATERIALS AND METHODS .......................... 44 - 56
EXPERIMENTATION AND RESULTS ................. 57 - 104

(I) Seasonal changes in growth and development of three varieties of soybean under varying photoperiods.
Experiment 1 .................................... 57 - 68

(II) To determine the minimum number of inductive cycles for floral induction in different varieties of soybean.
Experiment 2 .................................... 69 - 73

(III) Effect of GA₃ and some phenolic compounds on growth and development of soybean.
Experiment 3 ................................... 74 - 77
Experiment 4 ................................... 78 - 80
Experiment 5 ................................... 81 - 83
Experiment 6 ................................... 84 - 88
Experiment 7 ................................... 89 - 91

(IV) Ontogenic and biochemical changes during inductive and non-inductive photoperiods.
Experiment 8 ................................... 92 - 95
Experiment 9 ................................... 96 - 104

DISCUSSION ....................................... 105 - 123
LITERATURE CITED ................................ 124 - 158

*****