**SOME OPTIMALITY CONDITIONS FOR UNCONSTRAINED OPTIMIZATION PROBLEM**

**BY**

**AMOSU, OLUSHOLA OLUGBENGA**

**MATRICULATION NUMBER: 20183003**

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## DECLARATION

I hereby declare that this research was written by me and is a correct record of my own research. It has not been presented in any previous application for any degree of this or any other University. All citations and sources of information are clearly acknowledged by means of references.

#### AMOSU, OLUSHOLA OLUGBENGA

#### Date:. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

## CERTIFICATION

This is to certify that this research work entitled **Some Optimality Conditions For Unconstrained Optimization Problem** is the outcome of the research work carried out by **Amosu Olushola Olugbenga** (20183003) in the Department of Mathematics, Federal University of Agriculture, Abeokuta, Ogun State.

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#### PROF. I.A. OSINUGA Date

(**SUPERVISOR**)

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#### DR. E.O. ADELEKE Date

(Ag. **HEAD OF DEPARTMENT**)

## DEDICATION

This work is dedicated to Almighty God, the creator of the universe and all mankind, who gave me this grace from the inception of this project work till its completion. And also to my wonderful family, starting from my beloved parents, Mr and Mrs AMOSU as well as my ever-supportive siblings and to everyone that has been supportive and helpful in my education life.

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## ABSTRACT

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