

## 





ثبكة المعلومات الجامعية





## جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



نقسم بللله العظيم أن المادة التي تم توثيقها وتسجيلها علي هذه الأفلام قد اعدت دون آية تغيرات



يجب أن

تحفظ هذه الأفلام بعيداً عن الغبار

في درجة حرارة من 15-20 مئوية ورطوبة نسبية من 20-40 %

To be kept away from dust in dry cool place of 15-25c and relative humidity 20-40 %



ثبكة المعلومات الجامعية









South Valley University Faculty of Science Department of Chemistry

> RECENT TRENDS ON SYNTHESIS OF SOME NEW HETEROCYCLIC COMPOUNDS AND SOLVATO CHROMIC PHOTOSENSITIZER AS EXTRACTED PHYTO-PIGMENT LIKE

### A THESIS

Presented to Aswan-faculty of Science,
South Valley University
For the Degree of Doctor of Philosophy of Science
Chemistry
"Organic Chemistry"
By

## NARIEMAN YOUSIF MAHMOUD EL-BAGA

Master of Science-Chemistry 1999

Supervised by

Prof. Dr. A. I. M. Koraiem
Prof. of Organic Chemistry
Head of Chemistry Department
Faculty of Science- Aswan
South Valley University

Dr. H. A. Soleiman
Lecture of Organic Chemistry
Chemistry Department
Faculty of Science- Aswan
South Valley University

2005



40.40 mg

Ma.

7.\*

#### Approval Sheet Title of Ph. D. Thesis

#### RECENT TRENDS ON SYNTHESIS OF SOME NEW HETEROCYCLIC COMPOUNDS AND SOLVATO CHROMIC PHOTOSENSITIZER AS EXTRACTED PHYTO-PIGMENT LIKE

Name of the Candidate

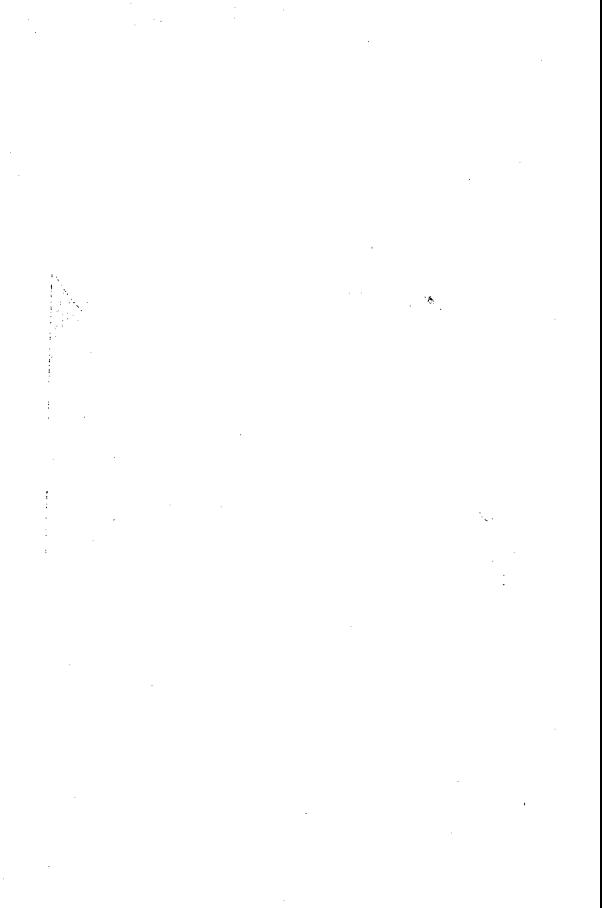
## NAREMAN YOUSIF MAHMOD EL-BAGA

B. Sc. (Chemistry 1982) M. Sc. (Chemistry 1999)

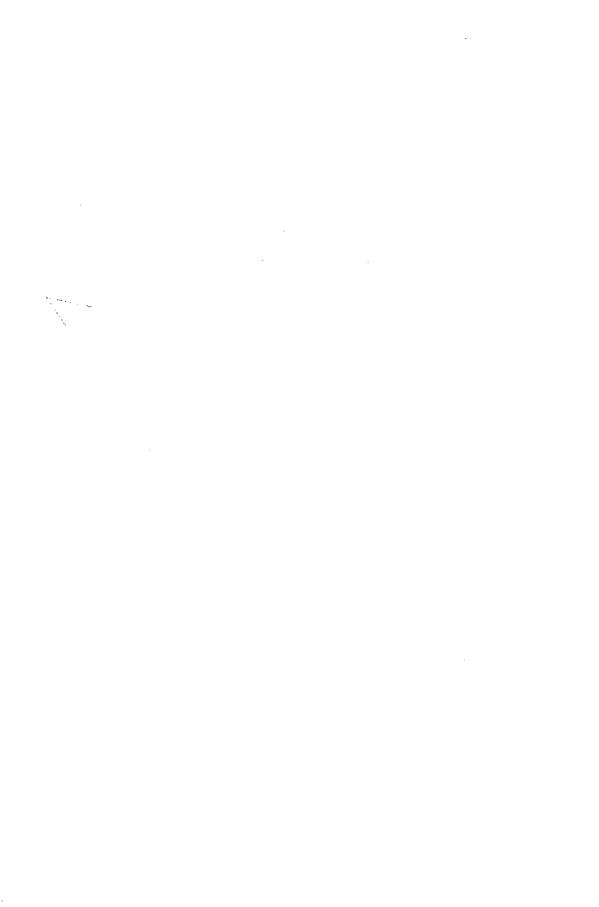
## Submitted to the Faculty of Science, South Valley University Aswan, Egypt

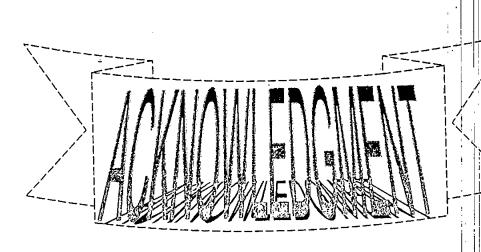
Supervision committee	Approved
<b>Prof. Dr. A. I. M. Koraiem</b> South Valley University	
Dr. H. A. Soleiman	

Prof. Dr. A. I. M. Koraiem Head of Chemistry department Faculty of Science, South Valley University



# TOWANIE MANAGEMEN . MY DAUGHER GHADA HO





....

----

i

-:. /

A field at

•,

#### ACKNOWLEDGEMENT

#### "Thanks To Allah"

I wish to express my sincere thanks and gratitude to **Prof. Dr. A. I. M. Koraiem** (El-Aswany), Professor of Organic Chemistry and Chairman of Chemistry Department, Aswan-Faculty of Science, South Valley University, for his supervision, suggesting and planning the point of research, encouragement, assistance and guidance during the course of this work which made this study possible, also indebted to him for laboratory facilitates guidance and patience which brought this work to completion.

Deep thanks and gratitude to **Dr. H. A. Solieman** Lecturer of Organic Chemistry, Department, Aswan-Faculty of Science, South Valley University, for his sincere co-operation, supervision, helpful comments, encouragement, assistance and guidance during the course of this work which made this thesis in its present form.

My grateful thanks to *Prof. Dr. Ali K. Khalafalla*, Professor of Organic Chemistry, and Dean of Aswan-Faculty of Science, *Prof. Dr. Farouk A. Adam* Professor of Analytical and Inorganic Chemistry and Vice Dean of Students Affairs, Aswan-Faculty Science, for their assistance and encouragement.

Deep thanks for *Prof. Dr. H. M. Abdelzaher* Faculty of science, Botany Department EL-Minia University for his sincere co-operation for finishing the biological part.

My grateful thank to all staff members of Chemistry Department, Aswan-Faculty of Science for sincere co-operation. Deep thanks for my family for their help, patience, assistance and moral support. I couldn't appreciate what they did for me.

The author

Nareiman Y. M. El-baga