

سامية محمد مصطفى



شبكة المعلومات الجامعية

بسم الله الرحمن الرحيم



سامية محمد مصطفى



شبكة المعلومات الجامعية



شبكة المعلومات الجامعية التوثيق الالكتروني والميكروفيلم



سامية محمد مصطفى



شبكة المعلومات الجامعية

جامعة عين شمس

التوثيق الإلكتروني والميكروفيلم

قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
علي هذه الأقراص المدمجة قد أعدت دون أية تغيرات



يجب أن

تحفظ هذه الأقراص المدمجة بعيدا عن الغبار



سامية محمد مصطفى



شبكة المعلومات الجامعية



بعض الوثائق الأصلية تالفة



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بالرسالة صفحات لم ترد بالأصل





STUDIES ON $\Delta^{\beta,\gamma}$ BUTENOLIDES

A Thesis

Submitted In Partial Fulfillment Of The
Requirements Of M.Sc. Degree
in Organic Chemistry

Presented by

HEND MOHAMED AHMED

B.Sc. Chemistry 1996

To

Chemistry Department

Faculty of women's for Arts, Science And Education

Ain Shams University, Cairo, Egypt

Supervised by

Prof. Dr. Nadia G. Kandil

Dr. Howida T. Zaky Dr. Mansoura I. Mohamed

B
140 VV

2002

Nadia Kandil

STUDIES ON $\Delta^{\beta,\gamma}$ BUTENOLIDES

By

HEND MOHAMED AHMED HAMED

Thesis advisors

Prof. Dr. Nadia G. Kandil

Dr. Howida T. Zaky

Dr. Mansoura I. Mohamed

Thesis approved

..Nadia G...Kandil.....

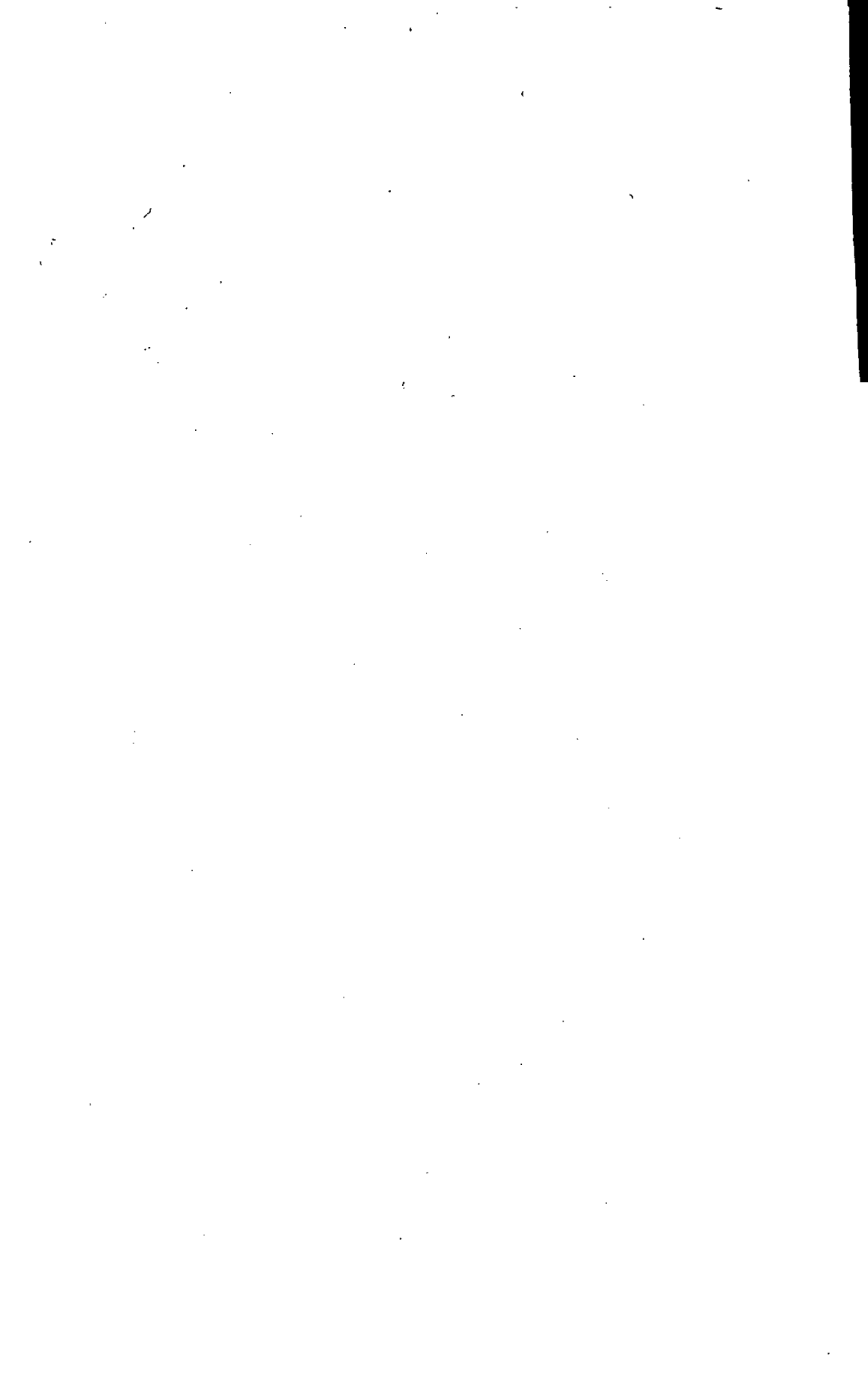
..Howida...T...Zaky.....

....Mansoura I. Mohamed

Head of Chemistry Department

E - El - Sawi

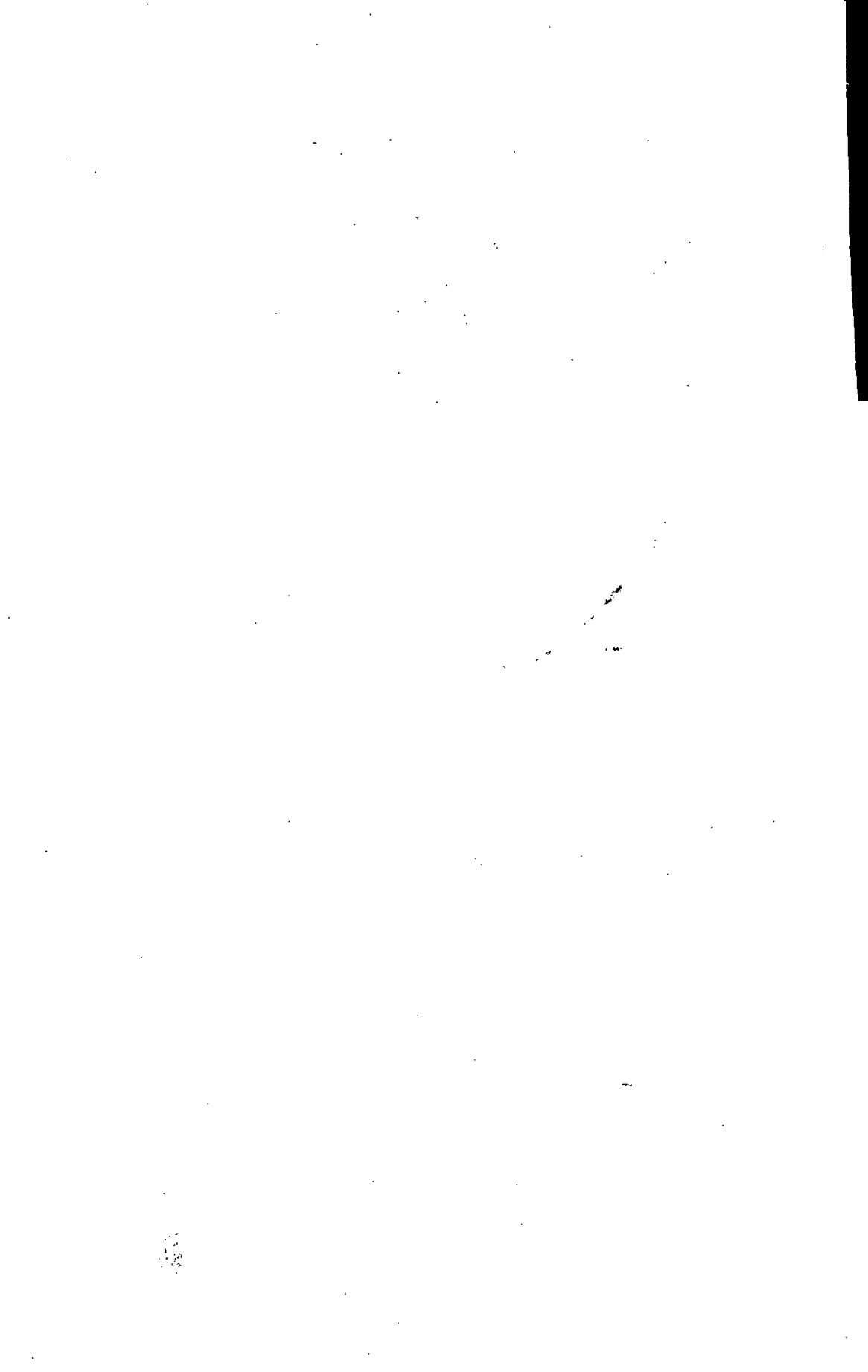
Prof. Dr. Emtithal El Sawi



QUALIFICATION

Name : *Hend Mohamed Ahmed Hamed*
Scientific Degree : *B.Sc.*
Department : *Chemistry*
College : *Women's College for Arts,
Science and Education*

University : *Ain Shams University*
B.Sc. Graduation Year : *1996.*



NOTE

Beside the work carried out in this thesis, the candidate attended post-graduate courses for one year in organic chemistry covering the following topics:

- ✱ Instrumental Analysis.
- ✱ Spectroscopy.
- ✱ Natural products.
- ✱ Chemistry of Heterocyclic compounds .
- ✱ Photochemistry.
- ✱ Quantum chemistry.
- ✱ Thermodynamics.
- ✱ Kinetics & catalysis chemistry.
- ✱ Special Topics (Organometallic).
- ✱ Advanced Reaction Mechanisms.
- ✱ English Language.

She passed successfully a written examination in these topics.

Prof. Dr. Emtithal El Sawi

.....
Head of Chemistry Department



Acknowledgment

*I thank God for supporting me in everything
in my life.*

*To acknowledge my sincere gratitude to all those who taught
me chemistry and still do, words will be undeniably unjust.*

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