



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

Ain Shams University Information Network  
جامعة عين شمس

شبكة المعلومات الجامعية  
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شبكة المعلومات الجامعية

# جامعة عين شمس

التوثيق الالكتروني والميكروفيلم

## قسم

نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها  
علي هذه الأفلام قد أعدت دون أية تغييرات

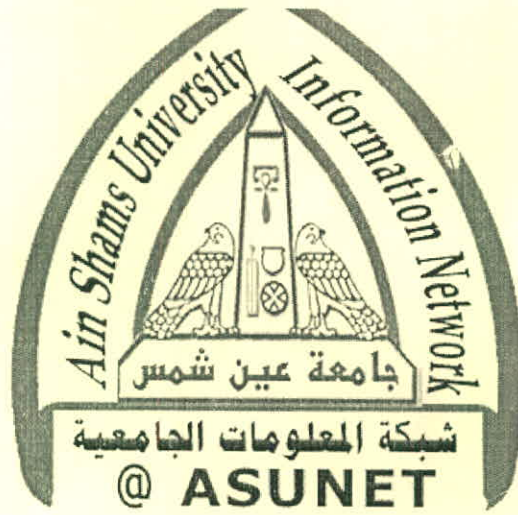


## يجب أن

تحفظ هذه الأفلام بعيدا عن الغبار

في درجة حرارة من 15-25 مئوية ورطوبة نسبية من 20-40%

To be Kept away from Dust in Dry Cool place of  
15-25- c and relative humidity 20-40%



شبكة المعلومات الجامعية  
التوثيق الالكتروني والميكرو فيلم

# OXIDATION OF SOME ORGANIC DYES BY SOME INORGANIC COMPOUNDS

A THESIS

Submitted to Tanta University in partial fulfillment  
For the Degree of Master of Science  
(Chemistry)

By

*Ahmed Farag Allah El-Ghoneimy*

B. Sc. (Chemistry), 1995

Supervisors

*Prof. Dr. Ahmed B. Zaki*

*Dr. Ali H. Gemeay*

Professor of Physical Chemistry

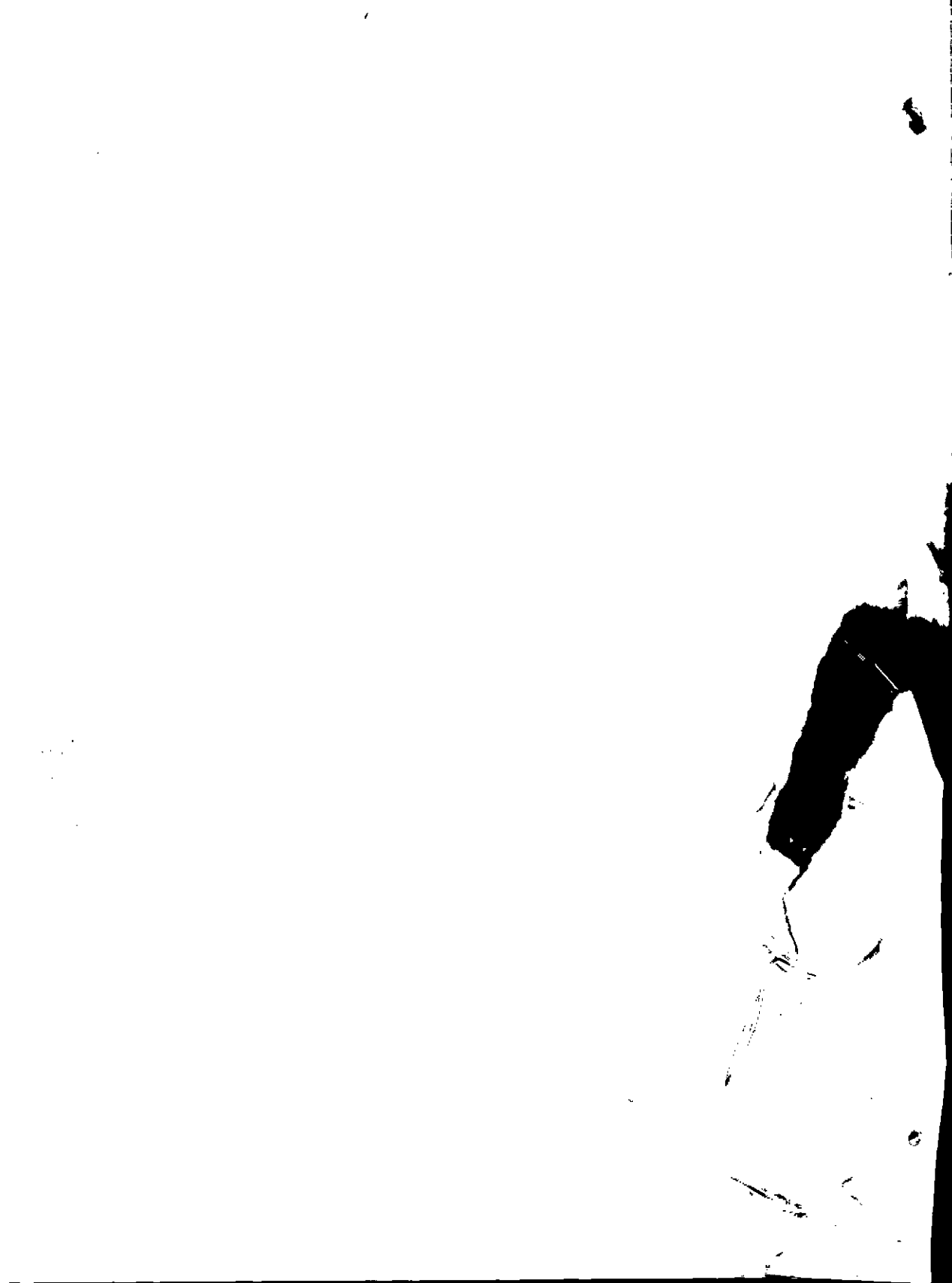
Assistant Professor of Physical Chemistry

Chemistry Department

Faculty of Science

Tanta University

2000

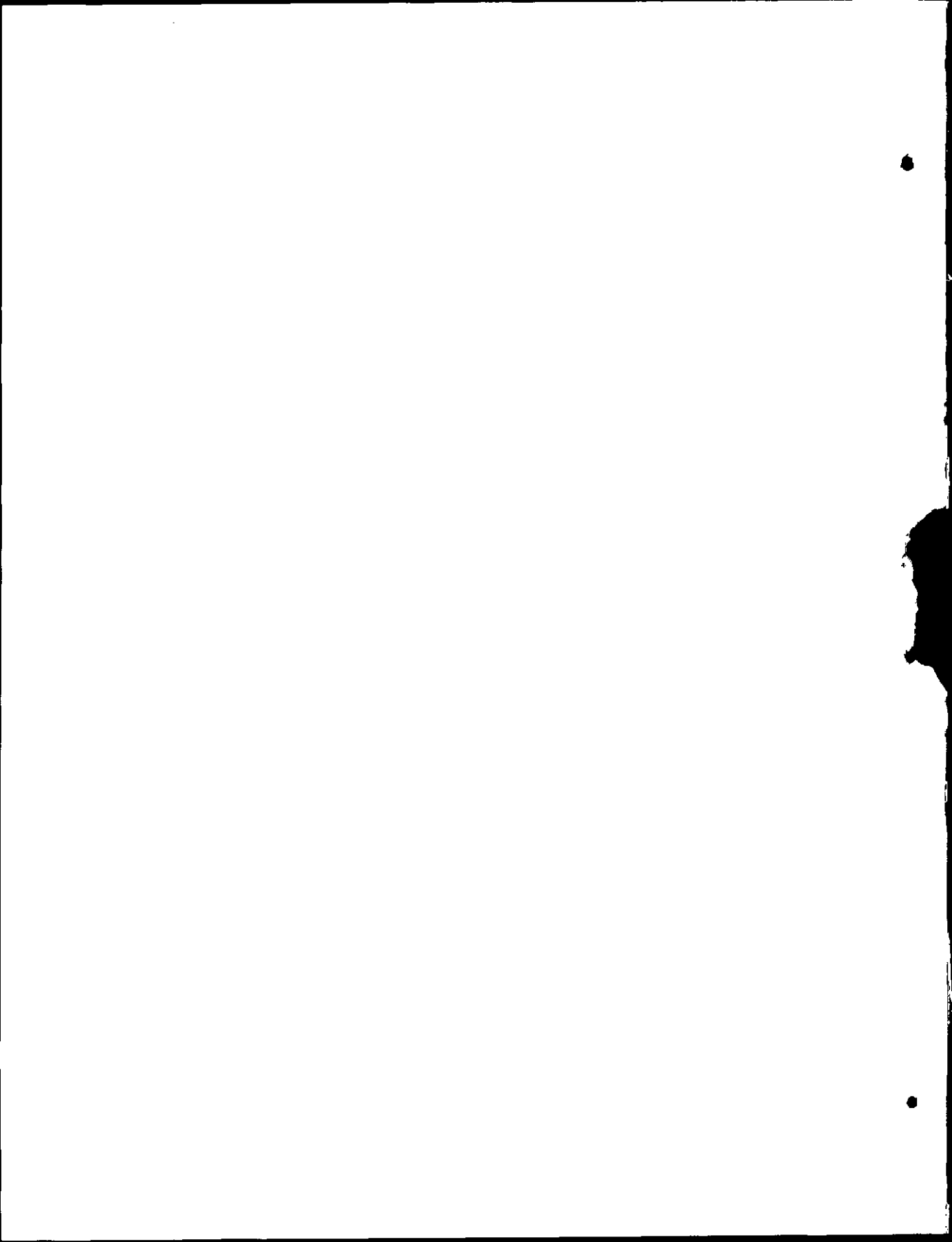


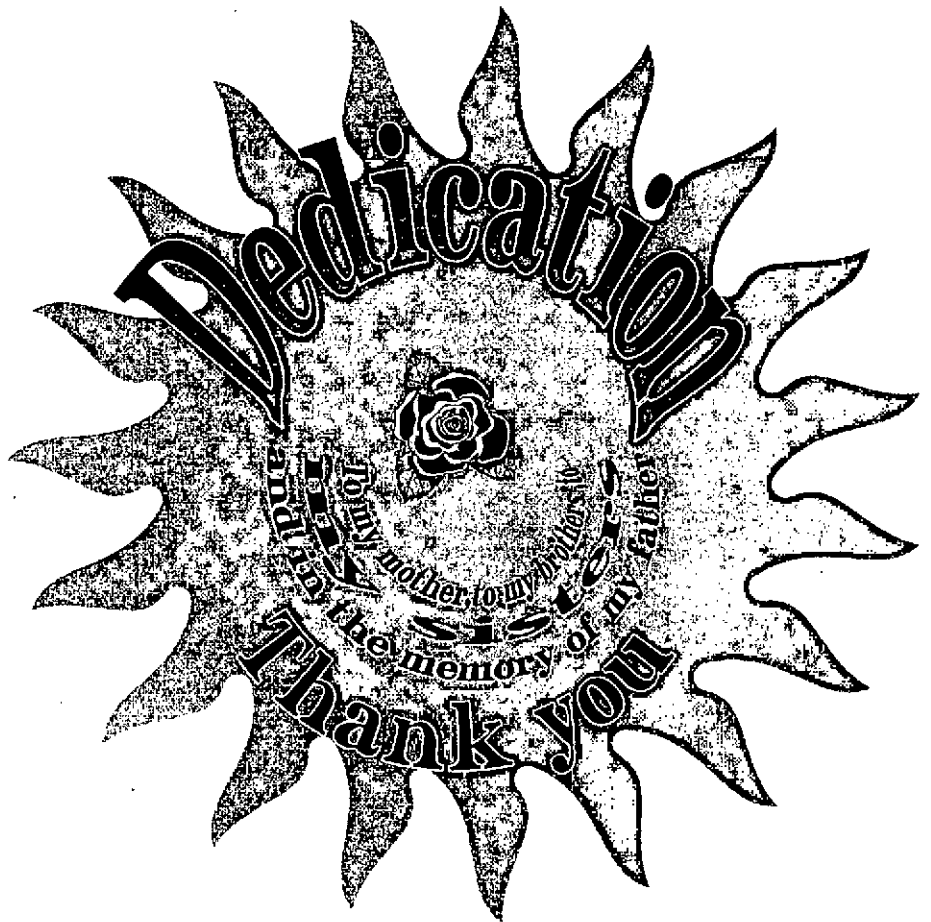


بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

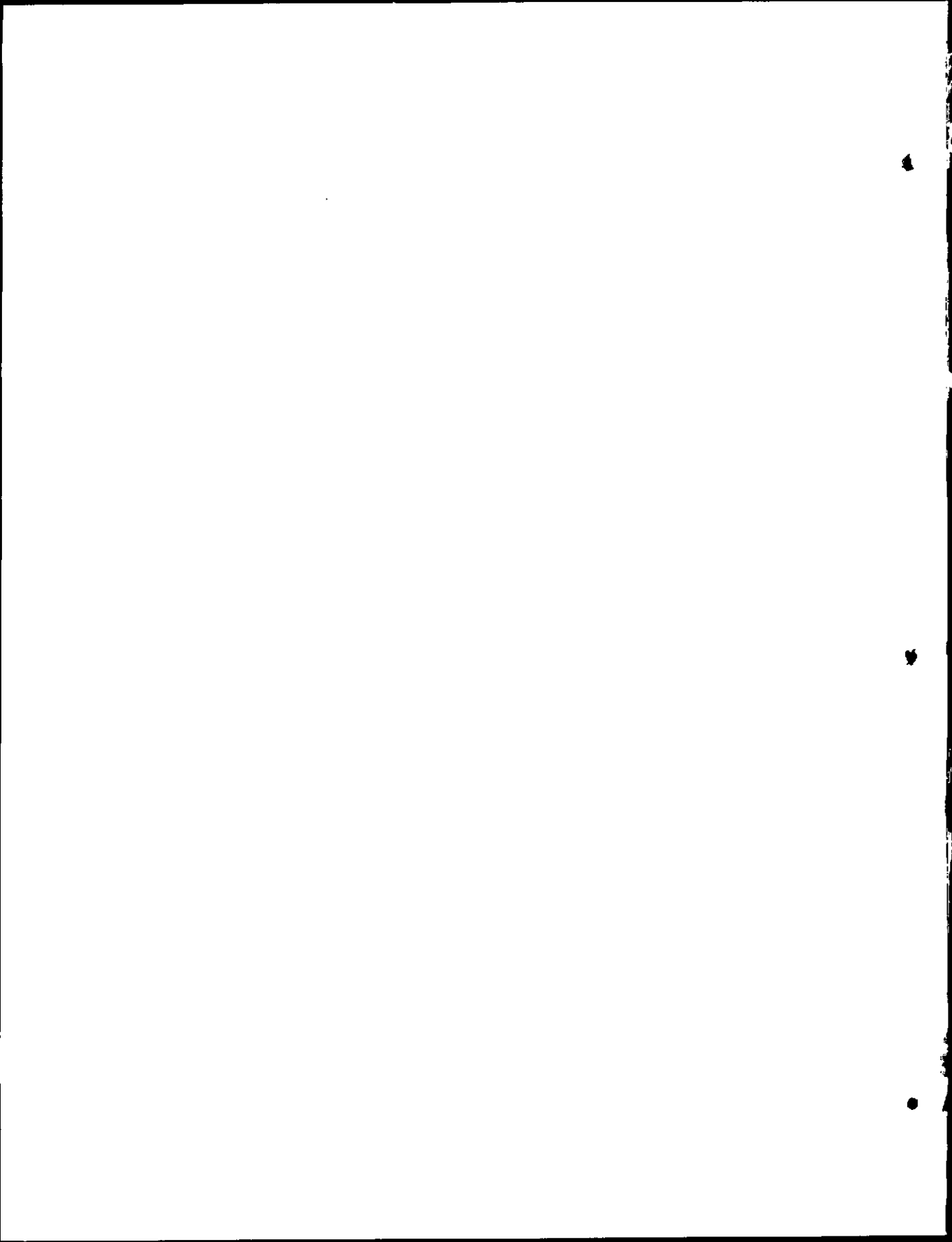
﴿ قُلْ لَنْ يَسْتَوِيَ الَّذِينَ يَعْطَمُونَ وَالَّذِينَ لَا يَعْطَمُونَ  
إِنَّمَا يَتَذَكَّرُ أُولُو الْأَلْبَابِ ﴾

صدق الله العظيم









## ACKNOWLEDGEMENT

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Finally, my deep gratitude to my family who looked for me and suffered so much in order to create a lovely and scientific atmosphere for helping me to finish my work.

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## SUPERVISORS

**1. Prof. Dr. Ahmed B. Zaki**

Professor of Physical Chemistry at the Chemistry Department  
, Faculty of Science, Tanta University.

**2. Dr. Ali H. Gemeay**

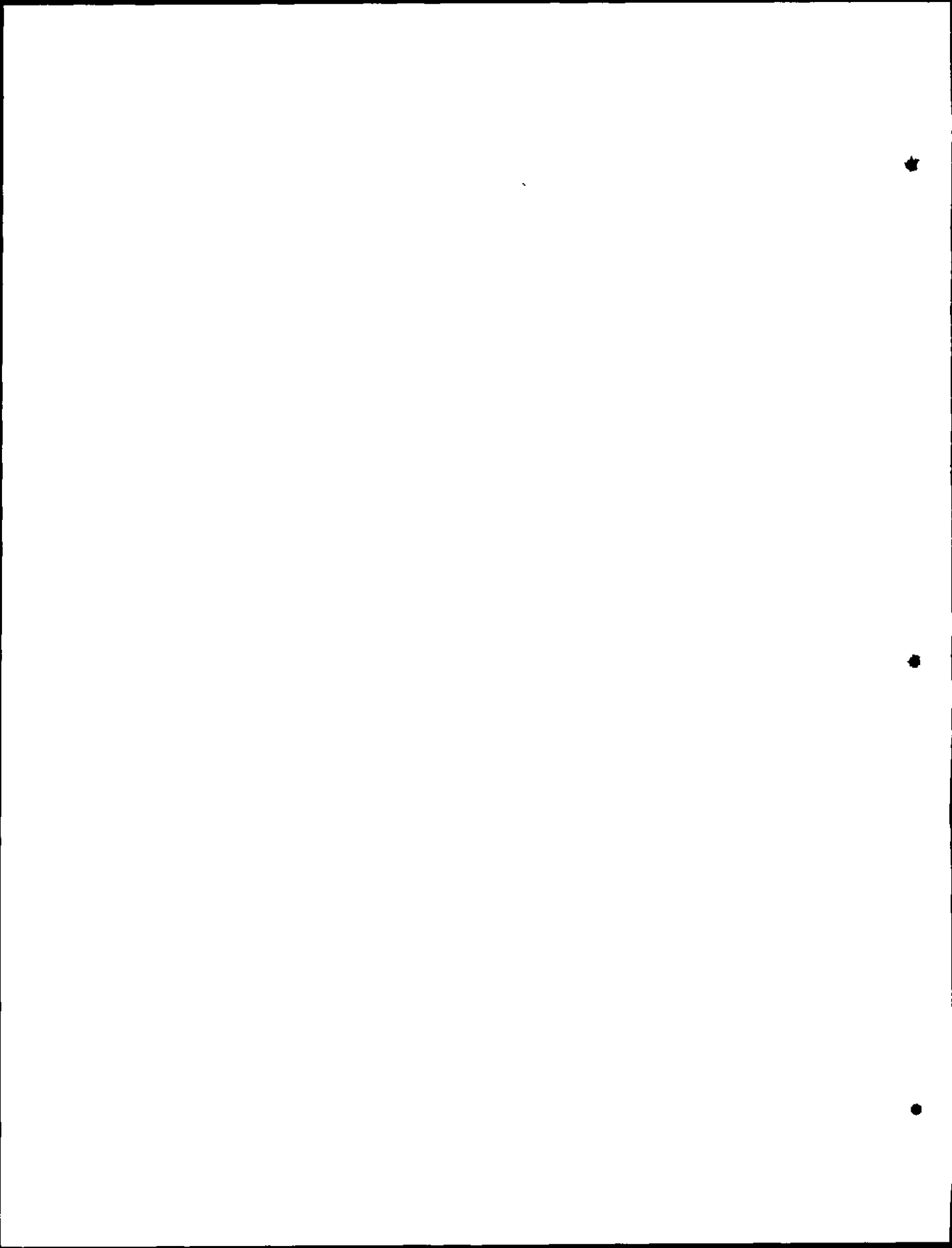
Assistant Professor of Physical Chemistry at the Chemistry  
Department, Faculty of Science, Tanta University.

*Prof. Dr. M. M. Abou Sekkina*

*M. M. Abou Sekkina*  

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*12/3/2004*  
Chairman of Chemistry Department



## COURSES

The candidate has studied postgraduate courses for one calendar year in the division of physical and inorganic chemistry. The courses cover the following topics.

- 1- Chemical kinetics
- 2- Electrochemistry
- 3- Photochemistry
- 4- Solid state chemistry
- 5- Molecular spectroscopy
- 6- Inorganic reaction mechanism
- 7- Coordination chemistry
- 8- Organic reaction mechanism
- 9- Polymer chemistry
- 10- German language

He had successfully passed the written examination of these courses.

*Prof. Dr. M. M. Abou Sekkina*

*2/3/2001*  
Chairman of Chemistry Department

