



شبكة المعلومات الجامعية

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ





شبكة المعلومات الجامعية



شبكة المعلومات الجامعية

التوثيق الالكتروني والميكروفيلم

جامعة عين شمس

التوثيق الالكتروني والميكروفيلم



نقسم بالله العظيم أن المادة التي تم توثيقها وتسجيلها
على هذه الأفلام قد أعدت دون أية 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 %



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بعض الوثائق الأصلية تالفة



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بالرسالة صفحات

لم ترد بالأصل

B1.VEY



MRI OF THE TEMPROMANDIBULAR JOINT IN PATIENTS WITH RHEUMATOID ARTHRITIS AND GENERALIZED OSTEOARTHRITIS

THESIS

**Submitted For Partial Fulfilment Of Master
Degree In Rheumatology And Rehabilitation**

BY

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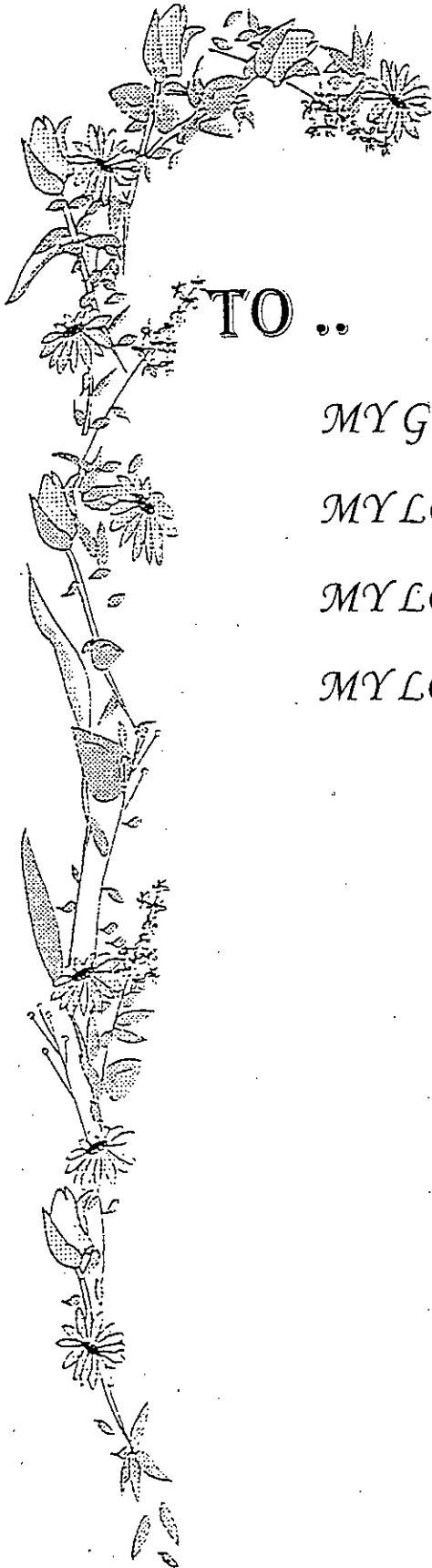
**FACULTY OF MEDICINE
ASSIUT UNIVERSITY
2001**



سُبْحَانَكَ
لَا إِلَهَ إِلَّا مَا عَلَّمْتَنَا
إِنَّكَ أَنْتَ الْعَلِيمُ الْحَكِيمُ

بِسْمِ اللَّهِ
الرَّحْمَنِ الرَّحِيمِ

سورة البقرة : آية رقم (٣٢)



TO ..

MY GREAT FATHER AND MOTHER

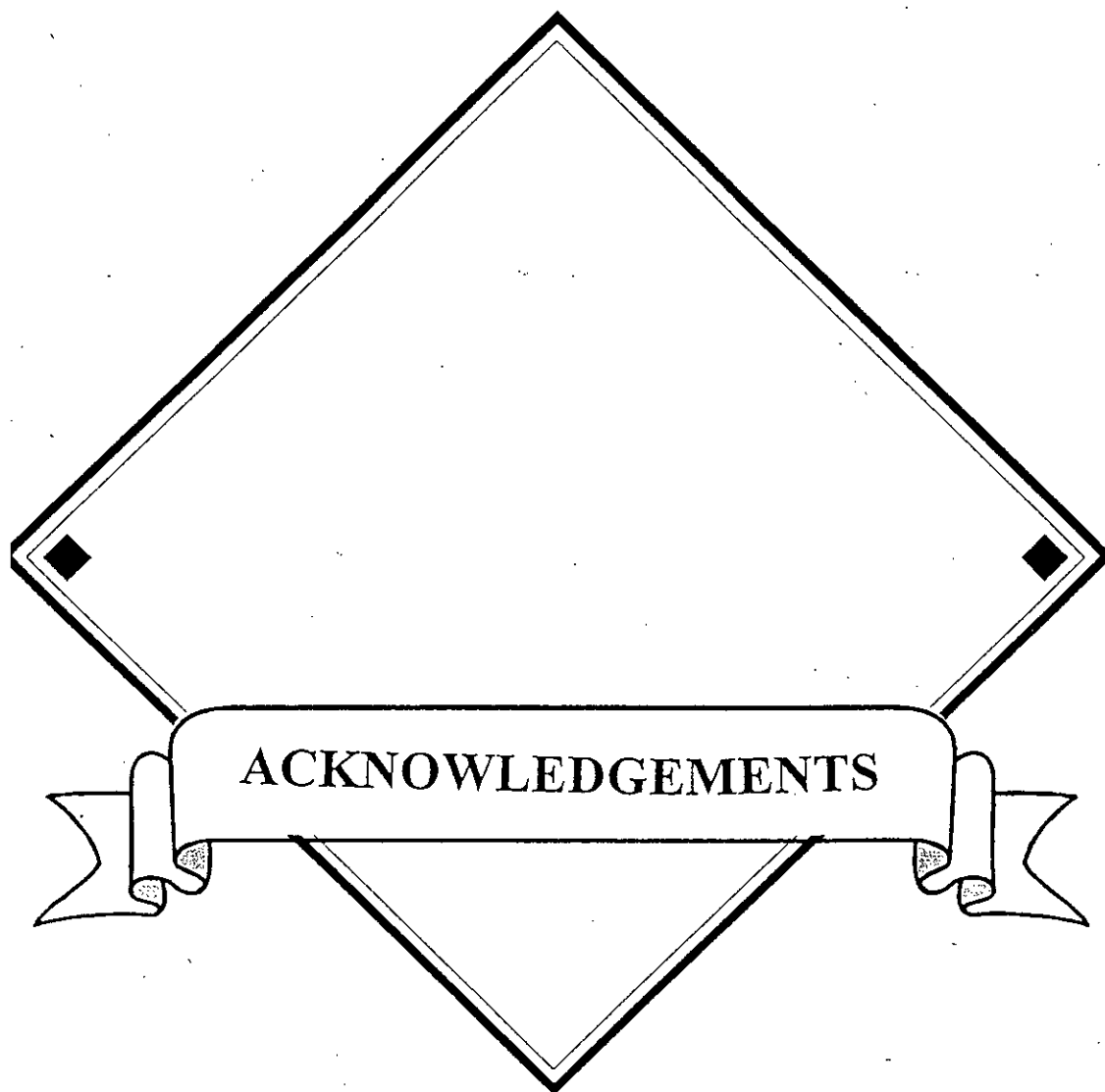
MY LOVELY BROTHER & SISTERS

MY LOVELY HUSBAND

MY LOVELY DAUGHTER: MANAR

MARWA M. ABD EL-AZIZ ✍





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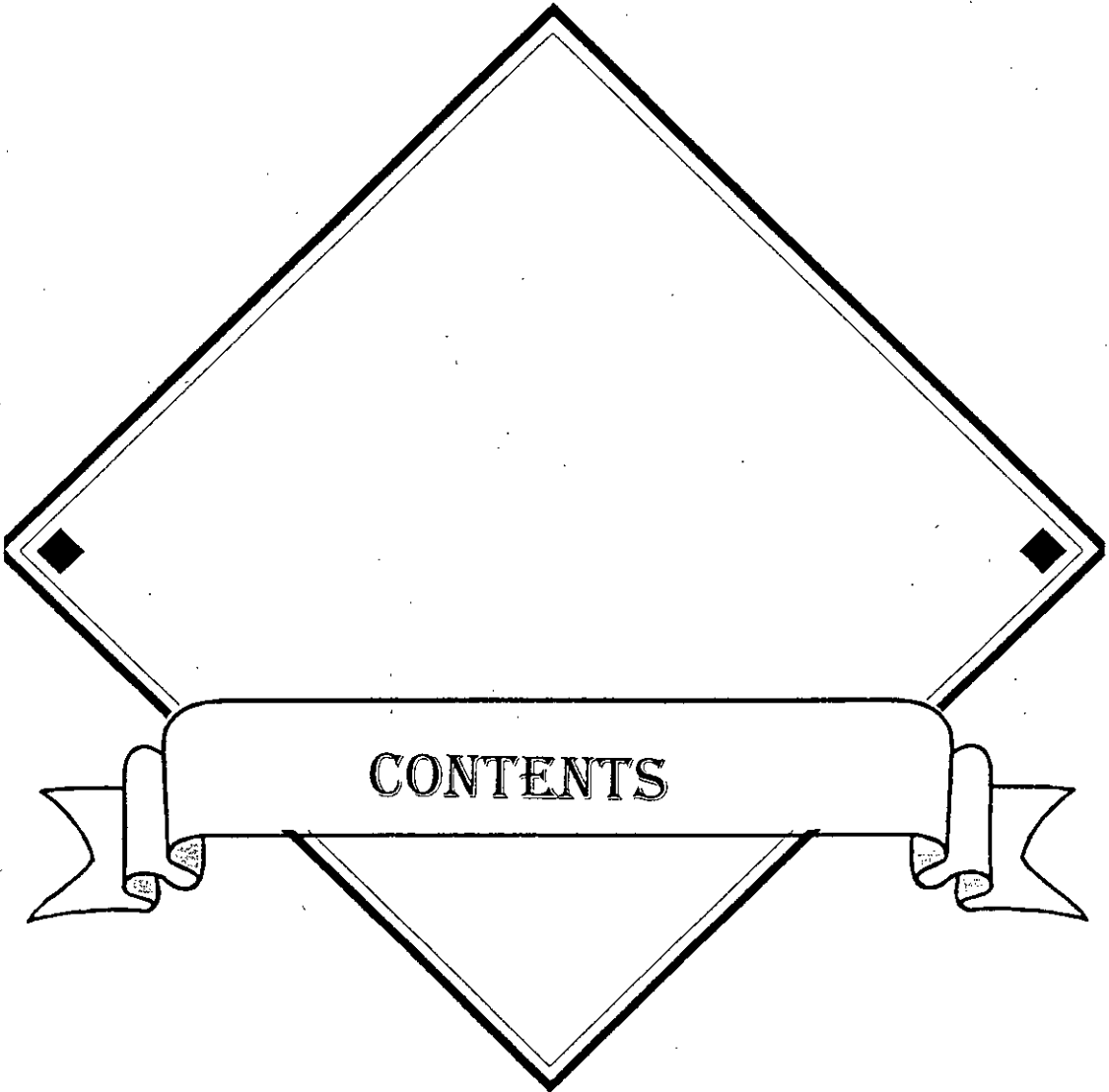
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LIST ABBREVIATION

CT	: Cumputed tomography.
DJD	: Degenerative joint disease.
FOV	: Field of view
GE	: Gradient-echo
IL-1	: Interleukin I-
MCP	: Metacarpopholangeal
MRI	: Magnetic resonance imaging
MS	: Morning stiffness
OA	: Osteoarthritis.
PIP	: Proximal interphalanegel.
RA	: Rheumatoid arthritis
RF	: Rheumatoid factor.
T ₁ W/.SE/Fast	: T ₁ weighted fast spine
TE	: Echo-time
TIMPS	: Tissue inhibitors of metalloproteinases
TMJ	: Tempromandibular joint
TNF- α	: Tumor necrosis factor- α
TNK	: Thickness.
TR	: Repetition time.

