



Sudan University of Science and Technology
College of Graduate Studies



Impact of Fasting on Inflammatory Responses in Sudanese Rheumatoid Arthritis Patients

أثر الصيام على بعض الاستجابات الدموية والالتهابية لدى مرضى
إلتهاب المفاصل الروماتويدي السودانيين

Dissertation Submitted in Partial Fulfillment of the Requirements for M.Sc.
Degree in Medical Laboratory Sciences-(Hematology and
Immunoematology)

Submitted by:

Zenab Osman Ahmed Khalifa

B.Sc. of Medical Laboratory Sciences (Hematology)-
UMST- 2013

Supervisor:

Dr. Selma Elmalieh Abdalla

MSc., PhD/ Physiology

November, 2019