بِسِم اللهِ الرَّحْمَن الرَّحِيم

Sudan University of Science and Technology College of Graduate Studies

Evaluation of Serum Levels of Copper, Magnesium and Zinc Among Sudanese Smokers

تقويم مستوى النحاس والمغنيسيوم والزنك في مصل الدم لدى المدخنين السودانيين

A Dissertation Submitted in Partial Fulfillment for the Requirements of the Degree of Master in Medical Laboratory Science

Clinical Chemistry

By

Eslam Sabri Bushra Hassan

(B.Sc, in Clinical Chemistry, 2011)

Sudan University of Science and Technology

Supervisor

Dr. Tarig Ahmed Hassan Karar

(Phd. in Clinical Chemistry)

2014