



Benha University Faculty of Arts Department of Geography and GIS

Using Cross-variable maps and Cartographic Modeling in the Demographic Analysis of Qalyubiyya Governorate

A thesis submitted in partial fulfillment of the requirements for the Master degree

Department of Geography and GIS- Branch of Cartography (Credit hours system)

By

Mohamed Attia Abdel Azim Ali Afifi

Supervised by

Prof. Ali Mustafa Kamel Professor of Physical Geography and Cartography Prof. Sameh Ibrahim Abd El Wahab Professor of Human Geography and Cartography