

بسم الله الرحمن الرحيم

Sudan University of Science and Technology
College of Graduate Studies

**Influence of nutrients and bio-stimulants on growth attributes of
Periwinkle (*Catharanthus roseus*) plant.**

المغذيات والمحفزات الحيوية و أثرها في خصائص نمو نبات الونكا

**A thesis Submitted to Sudan University of Sciences and Technology, in
Fulfillment of the Requirement for the Degree of Ph.D. in Horticulture.**

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July 2019