REPORT OF FINAL EXAMINATION/DEFENSE OF DISSERTATION **DOCTORAL DEGREES**

The University of Tennessee **Graduate School**

This is to certify that

Lowe, Robert Earl			
Student ID Number: 290586			
a candidate t	for the	PHD	_ degree
			_
(passed or failed)			
the final examination in partial fulfillment of the requirements.			
Date: 7/12/2018			
Committee Names and Signatures			
M. Berry			
Name (Chairperson) B. Vander Zanden		Signature	
Name A. Mockus	,	Signature	
Name J. Day		Signature	
Name		Signature	
Name	;	Signature	
Name		Signature	

Submit Exam Results By Deadline To:

The Graduate School 111 Student Services Building

Knoxville, TN 37996-0211