UNIVERSITY OF ESWATINI
FACULTY OF EDUCATION
DEPARTMENT OF CURRICULUM AND TEACHING
MAIN EXAMINATION PAPER NOVEMBER 2018

TITLE OF PAPER: Advanced Curriculum Studies: Mathematics I

STUDENTS: M.Ed. Level 1

COURSE CODE: CTE619

TIME: Three (3) hours

INSTRUCTIONS:
1. This paper contains FIVE questions.
2. Answer ANY FOUR questions
3. Answer questions in continuous essay form.
4. Each questions carries 25 marks

This paper contains 2 pages including this one

DO NOT OPEN UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATOR.

Question1

Discuss how, as outlined by Ernest (2016), the cultural development of mathematics contributes to absolutism in school mathematics. [25]

Question 2

Write an essay entitled "In my teaching of mathematics I use both the fallibilism and the absolutism." In your essay give examples of where your approach is influenced by these philosophies. [25]

Question 3

Discuss the differences and similarities of the Euclidean geometry in the SGCSE syllabus and the historical Euclidean Geometry found in Euclid's elements. [25]

Question 4

Discuss the history of **ONE** of the following school topics: algebra, trigonometry or calculus. In your discussion state how you could use ideas from the history in your teaching. [25]

Question 5

Discuss learners' errors or misconceptions in the learning of school trigonometry. [25]

THE END