

UNIVERSITY OF ESWATINI  
FACULTY OF EDUCATION  
DEPARTMENT OF CURRICULUM AND TEACHING  
MAIN EXAMINATION PAPER 2020

TITLE OF PAPER: Curriculum Studies: Mathematics II

STUDENTS: M.Ed. Level 1

COURSE CODE: CTE620

TIME: Three (3) hours

INSTRUCTIONS:

1. This paper contains **five** questions.
2. Answer **any four** questions
3. Answer each question in a continuous essay form of **at least 3 pages**. In each question illustrate your points with mathematical examples.
4. Each questions carries 25 marks

**This paper contains 2 pages including this one**

DO NOT OPEN UNTIL INTRUCTED BY THE INVIGILATOR

### **Question 1**

Discuss the pros and cons of using graphic calculators in school mathematics test and examinations. In your discussion include how you would minimise the disadvantages and take full advantage of the positives. [25]

### **Question 2**

Discuss **five (5)** categories of Eraut (1994)'s categories of knowledge and how each might be applied to heading a school mathematics department.

### **Question 3**

Discuss **three (3)** different topics where GeoGebra can be used in the teaching and learning of school mathematics. In each case show by examples how it enhances the teaching and learning of the particular topic. [25]

### **Question 4**

Discuss problem solving including how it improves cognitive and metacognitive strategies in the learning of mathematics. [25]

### **Question 5**

Wan Mo, Connors and McCormick (1998) allude that the two most important purposes of appraisal in schools are teacher improvement and personnel decision making. Discuss the concept of teacher appraisal and each of the two purposes in relation to the mathematics teacher. [25]

**The End.**