

**UNIVERSITY OF ESWATINI
FACULTY OF EDUCATION
RE-SIT EXAMINATION PAPER 2021**

TITLE OF PAPER: CURRICULUM STUDIES IN MATHEMATICS

COURSE CODE: CTE532

PROGRAMME: PGCE

TIME ALLOWED: THREE (3) HOURS

INSTRUCTIONS:

1. ANSWER ANY **FOUR** QUESTIONS. EACH QUESTION IS WORTH 25 MARKS.
2. ESSAYS SHOULD BE AT LEAST 3 PAGES AND AT MOST 4 PAGES

This paper contains 2 pages including this one

**DO NOT OPEN THIS PAPER UNTIL INSTRUCTED
TO DO SO BY THE INVIGILATOR**

Question 1

- (a) Discuss 5 language issues relevant to the teaching and learning of secondary school mathematics. [10]
- (b) How could each of these issues impact on learners' learning of mathematics? [15]

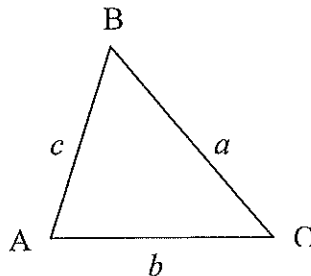
Question 2

Discuss with examples each of the following in relation to managing school mathematics

- (a) Organisation [7]
- (b) Monitoring [7]
- (c) Liaison [6]
- (d) Professional development [5]

Question 3

- (a) Construct a structured item that would lead learners to discover the trigonometry formula for area of a triangle and how to use it. You may use figure 1 or draw your own diagram(s). [9]



- (b) Prepare a solution for your structured item. [6]
- (c) Write 5 completion items to test learners on all aspects of rounding off to 3 significant figures. Indicate what each item is testing. [10]

Question 4

Write a paper on using a computer to prepare items from different topics in mathematics. In your paper give examples you would use with your audience. [25]

Question 5

Some have argued that using the learners' first language in the teaching and learning of school mathematics could help ease language difficulties in the learning of the subject. Write a debate in favour of this claim as well as against the claim. [25]