

**UNIVERSITY OF SWAZILAND  
FACULTY OF EDUCATION  
MAIN EXAMINATION PAPER 2017**

**TITLE OF PAPER:** CURRICULUM STUDIES IN MATHEMATICS

**COURSE CODE:** CTE532

**PROGRAMME:** PGCE

**TIME ALLOWED:** THREE (3) HOURS

**INSTRUCTIONS:** ANSWER ANY FOUR QUESTIONS. EACH QUESTION IS WORTH 25 MARKS.

**This paper contains 3 pages including this one**

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

### Question 1

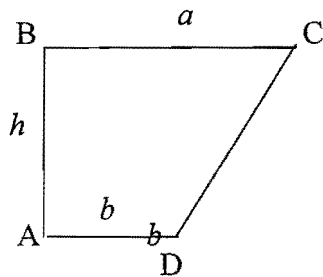
- (a) Discuss **five (5)** language issues in the teaching and learning of school mathematics. [10]
- (b) How would you deal with these issues in your teaching of mathematics? [15]

### Question 2

Write an essay on the organisation of the mathematics department for maximum performance of both staff and learners. [25]

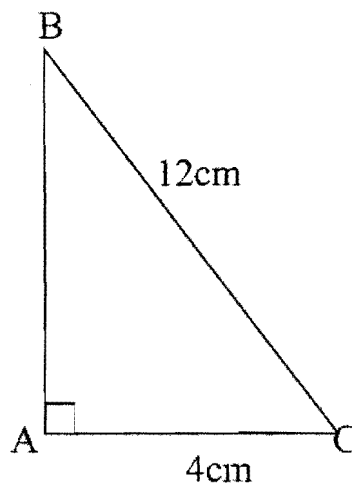
### Question 3

- (a) Construct a structured item that would lead learners to discover the formula for area of a trapezium. You may use figure 1 or draw your own diagram(s). [10]



- (b) Write completion items to test learners on all aspects of rounding off decimal numbers to 3 significant figures. Indicate what each item is testing. [9]
- (c) Analyse the multiple choice item 23 on:
- (i) The stem
  - (ii) The diagram
  - (iii) The responses
- [6]

23 The size of line AB in the diagram below is:



NOT TO SCALE

- A 128      B 16      C  $\sqrt{128}$       D 8

**Question 4**

Write a paper on using a computer to prepare classwork, tests, assignments and examinations in mathematics. In your paper give examples you would use with your audience. [25]

**Question 5**

Discuss the 10 ways of curriculum integration showing how you would use some of them in your teaching. [25]