UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER DECEMBER 2018: BED III PRIMARY

COURSE NUMBER: PED376

COURSE NAME: CURRICULUM STUDIES: MATHEMATICS II

TIME ALLOWED: 3 HOURS

INSTRUCTIONS:

1. THIS PAPER HAS **SIX** QUESTIONS.

2. YOU WILL ANSWER A TOTAL OF **FOUR** QUESTIONS.

3. EACH QUESTION IS WORTH 25 MARKS.

4. DOCUMENTS REFERRED TO IN SOME OF THE QUESTIONS ARE ATTACHED. IF YOU DO NOT FIND THEM, ASK FOR THEM.

5. ANY PIECE OF WRITTTEN WORK WHICH IS NOT FOR MARKING PURPOSES MUST BE CROSSED OUT CLEARLY.

THIS PAPER MUST NOT BE OPENED UNTIL PERMISSION IS GIVEN BY THE INVIGILATOR

Answer any **four** questions from this paper.

Question 1

    a. You have learnt about the theory of situated cognition. Assuming that you want to explain it to your colleagues, write an account of what you would say.   (11)

    b. Supposing School A is in a remote rural environment and school B is in an industrial, suggest, with reasons, what you would expect to observe in the way learners from these environments (at home and at school) carry out mathematics tasks.   (14)

                Total   **25 Marks**

Question 2

    a. Teaching requires resources to be effective. Show your understanding of the following resources indicating how they feature in teaching.

                                                          (18)

        i. Human resources
        ii. Materials resource
        iii. electronic resources

    b. How would you select written resources for your teaching mathematics?   (7)

                Total   **25 Marks**

Question 3

... you can take a horse to the river but you cannot make him drink ... (author unknown)

    a. Discuss this statement showing your understanding of the meaning of motivation. (8)

    b. Discuss motivation from the point of view of the behaviourist and humanist. Use Skinner and Maslow to illustrate your answer.   (12)

    c. How would you motivate a class of students in a poor rural environment?   (5)

Total   **25 Marks**

Question 4

a. Discuss the issues relating the use of second language in teaching mathematics?

(10)

b. Describe barriers to communication   (10)

c. Evaluate the statement?

"… the mathematical language is different ….   (5)

Total   **25 Marks**

Question 5

a. Using your knowledge of integration, discuss the integration between mathematics and science. Include examples of concepts involved.   (12)

b. Outline advantages and disadvantages of integration   (8)

c. Evaluate of what is possible in Swaziland.   (5)

Total   **25 Marks**

Question 6

a. Discuss the issues related to preparing an examination. Point out the necessary precautions one needs to bear while setting an examination   (10)

b. The Examination Council of Swaziland of Primary Mathematics examination contain multiple choice question and free response questions. Evaluate the use of this practice showing the advantages and disadvantages of such questions. (10)

c. Why is it important to do an item analysis for an assessment task e.g. a test or examination?   (5)

Total   **25 Marks**